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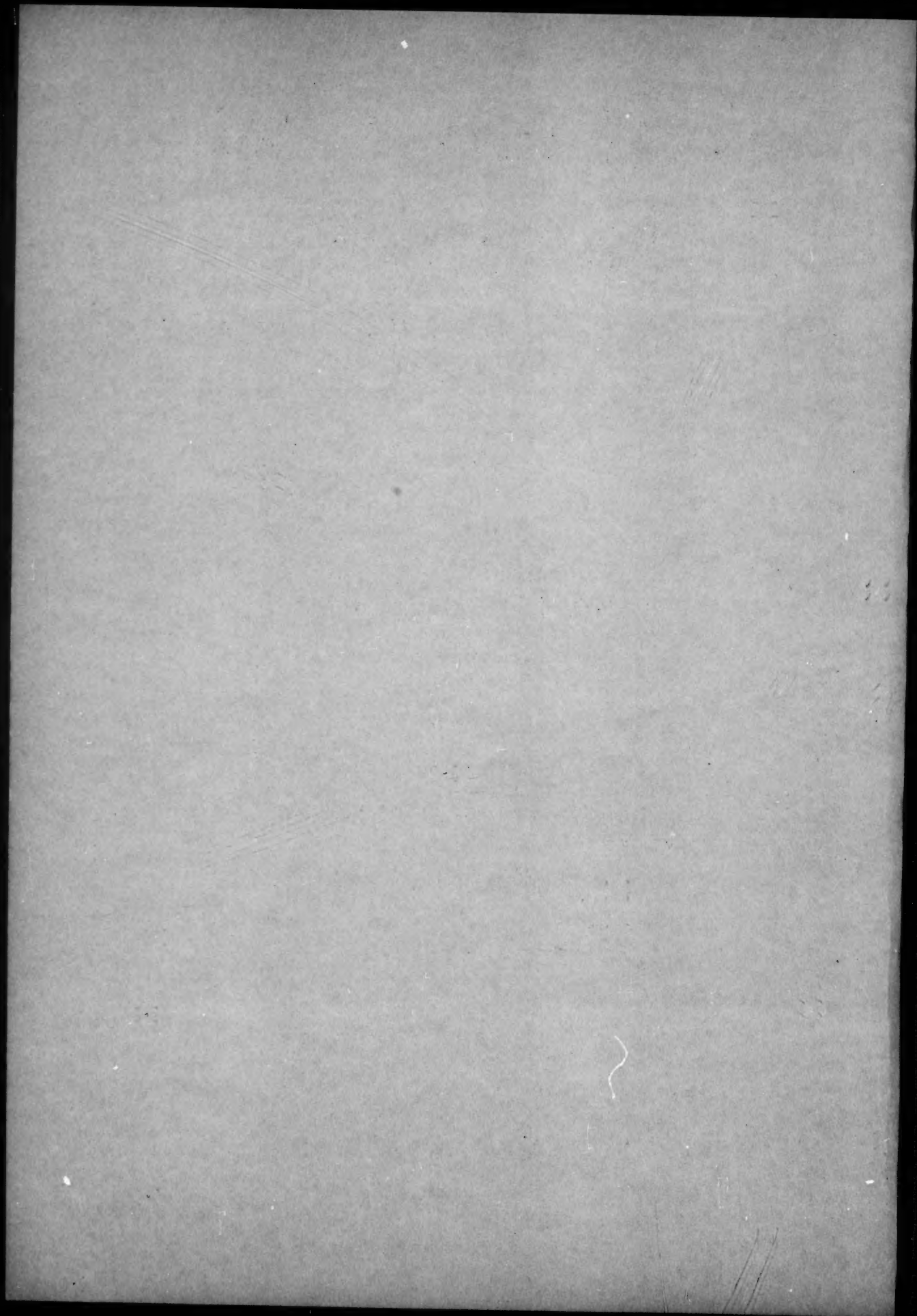
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- Some mathematical optimization methods and their application in the economy of Kirghizia. 13185: ★Some mathematical optimization methods and their application in the economy of Kirghizia. (Russian)
- Some mathematical questions in biology, II. 1730: ★Some mathematical questions in biology. II.
- Some mathematical questions in biology, III. 1731: ★Some mathematical questions in biology. III.
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- Sparse sets of linear equations. 10074: ★Large sparse sets of linear equations. 10075: ★Sparse matrices and their applications.
- Spazi Funzionali. 6621: ★Symposia Mathematica. Vol. VII.
- C. N. Srinivasengar dedication volume. 1839: ★C. N. Srinivasengar dedication volume. See also Biography: Srinivasengar, C. N., #5803; Singh, S. N., #8870; Pathak, Ram Shankar, #8880; Sinha, B. B. and Singh, S. P., #12376; Amur, Krishna and Hegde, V. S., #12415; Roy, S. R., #13162 and Ram, Shri and Singh, K. P., #13166.
- Statistical analysis of stochastic processes. 10008: ★Stochastic point processes: statistical analysis, theory, and applications.
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- Statistical tables. 5313: Tables statistiques.
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- Statistics, mathematical. 12616: ★Probability theory. Mathematical statistics. Theoretical cybernetics. Vol. 11. (Russian)
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- Studies in elasticity and plasticity, No. 9. 3334: ★Studies in elasticity and plasticity. No. 9. (Russian) See also Mihlin, S. G., #10264.
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- Studies in inductive logic and probability, Vol. I. 49: ★Studies in inductive logic and probability. Vol. I.
- Studies in integro-differential equations in Kirghizia, No. 9. 810: ★Studies in integro-differential equations in Kirghizia. No. 9. (Russian)
- Studies in mathematical statistics. 1352: ★Studies in mathematical statistics.
- Studies in mathematical statistics, and related questions. 7317: ★Studies in mathematical statistics, and related questions. (Russian) See also Fozilov, H. and Sirazdinov, S. H., #12769.
- Studies in model theory. 5845: ★Studies in model theory.
- Studies in systems of logic (dedicated to the memory of S. A. Janovskaja) See Smirnov, V. A., #1877; Finn, V. K., #1881; Ivin, A. A., #3697 and Smirnov, V. A., #5814.
- Studies in the theory of adaptive systems. 5440: ★Studies in the theory of adaptive systems. (Russian)
- Studies in the theory of algorithms and mathematical logic, Vol. I. 5809: ★Studies in the theory of algorithms and mathematical logic. Vol. I. (Russian) See also Ter-Zaharjan, N. P., #10780.
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- Studies in topology. 9725: ★Studies in topology. (Russian)
- Studies in the theory of plates and shells. 3343: ★Studies in the theory of plates and shells. Collection VIII. (Russian)
- Summer Meeting of the Canadian Mathematical Congress, Twenty-Fifth, 1971. 5776: ★Proceedings of the Twenty-Fifth Summer Meeting of the Canadian Mathematical Congress, Lakehead University, Thunder Bay, Ont., June 16-18, 1971.
- Summer Research Institute of the American Mathematical Society, Eighteenth. 6620: ★Partial differential equations.
- Summer Research Institute of the American Mathematical Society, Nineteenth. 6307: ★Harmonic analysis on homogeneous spaces.
- Summer School in Analytic Number Theory, Minsk, 1972. 5968: ★Current problems of analytic number theory. (Russian)
- Summer Workshop on Invariant Imbedding, Univ. Southern California, Los Angeles, Calif., 1970. 5384: ★Invariant imbedding.
- Symmetric functions in statistics (Proc. Sympos., Windsor, 1971). 9901: ★Symmetric functions in statistics.
- Sympos. celebrating the 25th anniversary of the Division of Appl. Math., Brown Univ., Providence, R.I., 1971. 10749: ★The future of applied mathematics.
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- Symposia Mathematica, Vol. VIII. 8541: ★Symposia Mathematica. Vol. VIII. See also Salmon, Paolo, #11092; Rees, D., #11100 and Amitsur, S. A., #11180.
- Symposia Mathematica, Vol. IX. 7318: ★Symposia Mathematica. Vol. IX. See also Ottaviani, Giuseppe, #9786; Fernique, Xavier, #12639 and Dubins, Lester E., #12644.
- Symposia Mathematica, Vol. XI. 3667: ★Symposia Mathematica. Vol. XI. See also Rea, Claudio, #6469; Tomassini, G., #6936; Vasconcelos, Wolmer V., #8497; Nastold, H. J., #8857; Lafon, Jean-Pierre, #11087; Heil Erhard, #11690; Karzel, Helmut, #12229; Leichtweiß, Kurt, #12441 and Sigrist, François, #12504.
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- Symposium on Algebraic Topology (Battelle Seattle Res. Center, Seattle, Wash., 1971). 7249: ★Symposium on Algebraic Topology. See also Moore, John C. and Peterson, Franklin P., #12527; Moore, John C., #12530 and Milgram, R. James, #12565.
- Symposium on Analytic Methods in Mathematical Physics (Indiana Univ., 1968). 5746: ★Analytic methods in mathematical physics.
- Symposium in honor of Paul S. Dwyer. 9901: ★Symmetric functions in statistics.
- Symposium on Inequalities, Third. 5761: ★Inequalities. III.
- Symposium on Information Theory (Dubna, 1969). See Davissan, L. D. and Schwartz, S. C., #3618; Cover, T. M. and Hellman, M. E., #5742; Prelov, V. V., #10625; Has'minskiĭ, R. Z., #10626; Koselev, V. N., #10646; Zigangirov, K. S., #10661 and Abramson, N., #13469.
- Symposium on Partial Differential Equations and Normed Linear Spaces, Proceedings of the International. 823: ★Proceedings of the International Symposium on Partial Differential Equations and the Geometry of Normed Linear Spaces (Jerusalem, June 19-28, 1972).
- Symposium on Risk Theory in honor of Filip Lundberg, Stockholm, 1968. 12666: ★The Filip Lundberg Symposium.
- Symposium on Symmetric Functions in Statistics (Windsor, 1971). 9901: ★Symmetric functions in statistics.
- Symposium on the Theory of Computing, Fourth Annual ACM. 5418: ★Fourth Annual ACM Symposium on the Theory of Computing (Denver, Colo., May 1-3, 1972). See also Schnorr, C. P., #3713; Cook, Stephen A. and Reckhow, Robert A., #5416; Kung, H. T., #5417; Blum, Manuel; Floyd, Robert W.; Pratt, Vaughan; Rivest, Ronald L. and Tarjan, Robert E., #8256 and Strong, H. R. and Walker, S. A., #10186.
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- Systems Analysis and Long-Range Planning. 13186: ★Proceedings of the Conference "Systems Analysis and Long-Range Planning" (held May 23-25, 1972 at the Computing Center of the Academy of Sciences of the USSR). (Russian)
- Systems of complemented subgroups. 6218: ★Groups with systems of complemented subgroups. (Russian)
- Systems for the distribution of resources on graphs. See Davydov, E. G., #1074.
- Systems theory. 1845: ★General systems theory. (Russian)
- Table errata. See Shanks, Daniel, #3870.
- Tables statistiques. 5313: Tables statistiques.
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- Technological means of automation. 8025: ★Proceedings of the Fourth All-Union Conference on Automatic Control—Engineering Cybernetics (Tbilisi, 1968). Vol. 6: Technological means of automation. (Russian)
- Test beds for control systems. 8041: ★Control in space (Proceedings of the Fourth International IFAC Symposium on Automatic Control in Space, Dubrovnik, 1971). Vol. 2: Attitude control systems for the launching and landing of spacecraft. Optimal control problems. Control of locomotion systems; manipulators. Test beds for control systems. (Russian)
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- Part III. 6920:** ★Theory and applications of differentiable functions of several variables. Part III.
- The theory of arithmetic functions (Proc. Conf., Western Michigan Univ., Kalamazoo, Mich., 1971). 8359:** ★The theory of arithmetic functions. See also Carlitz, L., #10827; Diamond, Harold G., #11010; Grosswald, Emil, #11011; Erdős, P. and Subbarao, M. V., #11012 and Suryanarayana, D., #11013.
- Theory of functions. 504:** ★Metric questions of the theory of functions and mappings. No. IV. (Russian) **3663:** ★Studies in differential equations and the theory of functions. (Russian) **5760:** ★Functional analysis and the theory of functions. No. 8. (Russian) **5762:** ★Investigations on linear operators and the theory of functions. IV. (Russian) **5778:** ★Collection of articles on the theory of functions. 4. (Russian) **8758:** ★Investigations on linear operators and the theory of functions. III. (Russian)
- Theory of functions of a complex variable. 4339:** ★All-Union Conference on the Theory of Functions of a Complex Variable (Entire and Meromorphic Functions and Functions of Several Variables), Kharkov, September, 1971. Abstracts of papers. (Russian)
- Theory of functions of a complex variable and boundary value problems, No. 1. 542:** ★Theory of functions of a complex variable and boundary value problems. No. 1. (Russian)
- Theory of languages and methods of construction of programming systems. 7682:** ★Theory of languages and methods of construction of programming systems. (Russian) See also Babko, L. D., #10179.
- Theory of numbers. 10957:** ★Investigations in number theory. 2. (Russian)
- Theory of optimal processes. 3535:** ★Theory of optimal processes. (Russian) See also Baranova, V. V., #6385; Afanas'ev, M. M. and Kocegub, P. H., #8046; Afanas'ev, M. M.; Kocegub, P. H. and Savtenko, V. S., #8047 and Čuberkis, V. P.; Volčenko, Ju. M. and Zыkov, V. V., #8079.
- Theory of oscillations, applied mathematics and cybernetics. See Dohryden', V. A., #1778; Mel'nikova, V. A., #3326; Biljuba, V. F. and Savel'ev, V. P., #5632; Grišnin, B. A. and Mamaev, D. D., #9932 and Fedotkin, M. A. and Knjažickii, B. Ja., #10458.**
- Theory of plates and shells. 3343:** ★Studies in the theory of plates and shells. Collection VIII. (Russian)
- Theory of random processes, No. 2. 12615:** ★Theory of random processes. No. 2. (Russian)
- Theory of self-adjusting control systems. 8020:** ★Proceedings of the Second IFAC Symposium on Self-adjusting Systems (Teddington, Great Britain, September 14-17, 1965): Theory of self-adjusting control systems. (Russian)
- Theory of sets and topology (in honour of Felix Hausdorff, 1868-1942). 21:** ★Theory of sets and topology (in honour of Felix Hausdorff, 1868-1942).
- Three-dimensional constructions. 7754:** ★Calculation of three-dimensional constructions. No. 15. (Russian)
- Topics in numerical analysis (Proc. Roy. Irish Acad. Conf., Dublin, 1972). 10035:** ★Topics in numerical analysis.
- Topologie différentielle. 9724:** ★Colloque International sur l'Analyse et la Topologie Différentielle.
- Topology. 21:** ★Theory of sets and topology (in honour of Felix Hausdorff, 1868-1942). **9725:** ★Studies in topology. (Russian)
- Topology and its applications. 7188:** ★Proceedings of the International Symposium on Topology and its Applications (Budva, 25-31. 8. 1972).
- Topology Conference (Emory Univ., 1970). 9631:** ★Topology Conference.
- Toposes, algebraic geometry and logic. 8592:** ★Toposes, algebraic geometry and logic.
- Traffic science. 13219:** ★Traffic science.
- Transactions of the Moscow Mathematical Society. 22:** ★Transactions of the Moscow Mathematical Society for the year 1969 (Vol. 20). **23:** ★Transactions of the Moscow Mathematical Society for the year 1970 (Vol. 21).
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- Transformation groups. 7281:** ★Proceedings of the Second Conference on Compact Transformation Groups. Part I. **7282:** ★Proceedings of the Second Conference on Compact Transformation Groups. Part II.
- Translations. 18:** ★Mathematics: Periodical collection of translations of foreign articles. Vol. 17, No. 5. (Russian) **19:** ★Mathematics: Periodical collection of translations of foreign articles. Vol. 17, No. 6. (Russian) **1844:** ★Mechanics: Periodical collection of translations of foreign articles. No. 6 (142) (1973). (Russian) **5714:** ★Cybernetics collection. New Series: No. 10. (Russian)
- Turbolenza. 7318:** ★Symposia Mathematica. Vol. IX.
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- Two articles on category theory. 2209:** ★(Two articles on category theory). See also Almuñia Loeda, J., #11247 and Lorenzo Muñiz, R., #11248.
- Untersuchungsforschung heute (Übersichtsvorträge der Züricher Tagung von SVOR und DGU, 1970). See Dinkelbach, W., #1702; Hochstädter, Dieter, #5618 and Kall, P., #10512.**
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- Vector and operator valued measures and applications (Proc. Sympos., Snowbird Resort, Alta, Utah, 1972). 4264:** ★Vector and operator valued measures and applications. See also Huff, Robert E., #8743; Kelley J. L. and Srinivasan, T. P., #8745; Byrne, Charles, Jr. and Sullivan, Francis, #9444; McShane, E. J., #9841; Motivier, Michel, #9842; Amrein, W.; Georgescu, V. and Jauch, J. M., #10374; Kelley, J. L.; Nayak, M. K. and Srinivasan, T. P., #11433; Anantharaman, R., #11436; Traynor, T., #11440 and Bibliography, #4265.
- Verhandlung der Schweizerischen Naturforschenden Gesellschaft, 1972. 8173:** ★Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (152. Jahresversammlung in Luzern, 13-15 Oktober, 1972).
- Volume dedicated to the memory of V. Ramaswami Aiyar. 3671:** ★(Volume dedicated to the memory of V. Ramaswami Aiyar).
- Vorträge der Konferenz für Mechanik (Berlin, 1971). 10750:** ★Vorträge der Konferenz für Mechanik (Deutsche Akademie der Wissenschaften zu Berlin, vom 13. bis zum 15. Oktober 1971).
- Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Ljubljana, 1972). 10751:** ★Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (Ljubljana, vom 4. bis 8. April, 1972).
- Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (München, 1973). 10752:** ★Vorträge der Wissenschaftlichen Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik (München, vom 2. bis 6. April 1973).
- Walsh functions. 8080:** ★Applications of Walsh functions.
- Wave propagation. 5772:** ★Mathematical problems in the theory of wave propagation. V. (Russian) **5773:** ★Mathematical questions in the theory of wave propagation. 6. (Russian) **11732:** ★Mathematical questions in the theory of wave diffraction. I.
- Zeitschrift für Nationalökonomie, Supplementum 1. 1669:** ★Contributions to the von Neumann growth model.

SUBJECT CLASSIFICATION

The following 32 pages are a reprinting of the AMS(MOS) 1970 classification scheme that first appeared as a supplement to the index issue of Volume 39 of Mathematical Reviews. Since the middle of 1973 the reviews in the monthly issues of Mathematical Reviews have been arranged in accordance with this scheme (although only the headings that appear in capital letters are printed in the issues), with two exceptions: (i) Sections 96 - 98 of the AMS(MOS) 1970 classification scheme are not being used at all; (ii) Sections 69 through 86 of the classification scheme that last appeared in full in the index issue of Volume 45 of Mathematical Reviews will continue to be used in Mathematical Reviews, instead of Sections 70 through 86 of the AMS(MOS) 1970 classification scheme. These sections are printed immediately after the full AMS(MOS) 1970 classification scheme, in the form in which they have been used during the second half of 1974.

Note that minor revisions are constantly being made in the AMS(MOS) 1970 classification scheme: some of them (and also some minor corrections) have been incorporated in the subject index immediately following the classification scheme.

00—XX GENERAL

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- A05 General mathematics
- A10 Collections of papers: Proceedings of conferences of general interest, translation volumes, etc. [See also 01A75.]
- A15 General bibliographies
- A20 Dictionaries and other general reference works
- A25 Methodology and philosophy of mathematics

01—XX HISTORY AND BIOGRAPHY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- A05 General histories, source books
- A10 Primitive
- A15 Pre-Greek, Babylonian, Egyptian
- A20 Greek
- A25 Far East
- A30 Islam
- A35 Medieval
- A40 15th and 16th centuries, Renaissance
- A45 17th century
- A50 18th century
- A55 19th century
- A60 20th century
- A65 Contemporary
- A70 Biographies, obituaries, personalia
- A75 Collected or selected works; reprintings or translations of classics

02—XX LOGIC AND FOUNDATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

02A05 Philosophical and critical**02Bxx Classical logical systems**

- B05 Propositional calculus
- B10 Predicate calculus
- B15 Higher order predicate calculus
- B20 Unusual quantifiers
- B25 Infinitely long sentences
- B99 None of the above, but in this section

02Cxx Nonclassical formal systems

- C05 Many-valued logic
- C10 Modal logic, etc.
- C15 Formalizations of intuitionism, etc.
- C20 Combinatory logic
- C99 None of the above, but in this section

02Dxx Proof theory (For theorem proving by machines, see 68A40.)

- D05 Proof theoretic ordinals

D99 Other proof theory**02Exx Constructive mathematics**

- E05 Intuitionistic mathematics
- E10 Algorithms
- E15 Computable functions
- E99 None of the above, but in this section

02Fxx Recursion theory

- F05 Thue and Post systems, etc.
- F10 Automata [See also 18B20, 68A25, 94A30, 94A35.]
- F15 Turing machines
- F20 Classification of recursive functions
- F25 Recursively enumerable sets
- F27 Recursion theory on ordinals and sets and other abstract structures
- F29 Recursion theory at higher types
- F30 Degrees of unsolvability
- F35 Hierarchies
- F40 Recursive equivalence types
- F43 Formal systems for computability
- F45 Combinatorial functions
- F47 Word problems
- F50 Applications
- F99 None of the above, but in this section

02Gxx Methodology of deductive systems

- G05 Decidability and undecidability
- G10 Axiomatizability
- G15 Finite axiomatizability
- G20 Completeness, categoricity, etc.
- G99 None of the above, but in this section

02Hxx Model theory

- H05 Models for theories in classical predicate calculus
- H10 Models for other theories
- H13 Model constructions
- H15 Applications to algebra, number theory, etc. [See also 13L05.]
- H20 Nonstandard models
- H25 Applications of nonstandard models [See also 10N15, 12L15, 28A98, 30A91.]
- H99 None of the above, but in this section

02Jxx Algebraic logic

- J05 Boolean algebras, lattices, topologies
- J10 Algebra of relations
- J15 Cylindric and polyadic algebras
- J99 None of the above, but in this section

02Kxx Set theory

- K05 Consistency and independence results
- K10 Nonclassical set theories
- K15 Axiomatics
- K20 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 04A25.]
- K25 Continuum hypothesis, generalized continuum hypothesis [See also 04A30.]
- K30 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 04A15, 28A05, 54H05.]
- K35 Large cardinals and ordinals (inaccessible, etc.)
- K99 None of the above, but in this section

04—XX SET THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Relations, functions [See also 08A05.]
- A10 Transfinite numbers
- A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 02K30, 28A05, 54H05.]
- A20 Combinatorial [See also 05A05.]
- A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]
- A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

05—XX COMBINATORICS [For finite fields, see 12Cxx.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 05Axx Classical combinatorial problems**
 - A05 Combinatorial choice problems; subsets, representatives
 - A10 Factorials, binomial coefficients, combinatorial functions
 - A15 Combinatorial enumeration problems, generating functions
 - A17 Partitions [See also 10A45.]
 - A19 Combinatorial identities
 - A20 Combinatorial inequalities
 - A99 None of the above, but in this section
- 05Bxx Designs and configurations**
 - B05 Block designs [See also 62Kxx.]
 - B10 Difference sets (number-theoretic, group-theoretic, etc.)
 - B15 Orthogonal arrays, Latin squares
 - B20 Matrices (incidence, Hadamard, etc.)
 - B25 Finite geometries
 - B30 Other designs, configurations
 - B35 Matroids, geometric lattices
 - B40 Packing and covering [See also 10E30, 52A45.]
 - B45 Tessellation and tiling problems
 - B99 None of the above, but in this section
- 05Cxx Graph theory** [For applications of graphs, see 94A20.]
 - C05 Trees
 - C10 Topological graph theory, embedding [See also 55A15, 55A25.]
 - C15 Chromatic theory of graphs and maps
 - C20 Directed graphs (digraphs)
 - C25 Graphs and groups
 - C30 Enumeration of graphs and maps
 - C35 Paths and extremal problems
 - C99 None of the above, but in this section

06—XX ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Total order
- A10 Partial order
- A15 Galois correspondence, closure operators
- A20 Lattices, semi-lattices, generalizations
- A23 Complete lattices
- A25 Complemented lattices, generalizations
- A30 Modular lattices, continuous geometries, generalizations [See also 16A30.]
- A35 Distributive lattices, generalizations
- A40 Boolean algebras and rings
- A45 Order topologies [See also 54F05.]
- A50 Ordered semigroups, other generalizations of groups
- A55 Ordered groups
- A60 Ordered abelian groups
- A65 Ordered linear spaces [See also 46A40.]
- A70 Ordered rings, algebras, modules [For ordered fields, see 10M15, 12J15.]
- A75 Other ordered algebraic structures

08—XX GENERAL MATHEMATICAL SYSTEMS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Structure of general algebras and relational systems [For topological representation, see 54H10.]
- A10 Free algebras, sums, products, limits, colimits
- A15 Varieties of algebras and generalizations
- A20 Axiomatic model classes
- A25 Universal algebra

10—XX NUMBER THEORY [Excluding 10Axx and 10Mxx, this classification scheme does not distinguish work in the rational number fields from that in other algebraic number fields.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 10Axx Elementary number theory** [For analogues in number fields, see 12A05.]
- A05 Multiplicative structure of the integers (GCD, etc.)
 - A10 Congruences, primitive roots
 - A15 Power residues, reciprocity
 - A20 Number theoretic functions, related numbers; inversion formulas
 - A25 Elementary prime number theory, factorization
 - A30 Algorithms and expansions, digital properties [Approximation results in 10F20; metric results in 10K10.]
 - A35 Recurrence sequences
 - A40 Special numbers, sequences and polynomials (e.g. Bernoulli)
 - A45 Partitions
 - A99 None of the above, but in this section
- 10Bxx Diophantine equations** [For all papers involving algebraic-geometric methods, see 14Gxx.]
- B05 Linear, quadratic and bilinear equations
 - B10 Cubic and quartic equations
 - B15 Higher degree equations
 - B20 Multiplicative equations
 - B25 Nonpolynomial equations
 - B30 Equations in sufficiently many variables [See also 10J10.]
 - B35 Representation problems [See also 10J10.]
 - B40 p -adic and power series fields
 - B45 Diophantine inequalities
 - B99 None of the above, but in this section
- 10Cxx Forms**
- C05 Quadratic and hermitian forms [See also 10E25.]
 - C10 Higher degree forms
 - C15 Analytic theory
 - C20 p -adic theory
 - C25 Minima of forms [See also 10E20.]
 - C30 Arithmetic properties of classical groups [See also 20Gxx.]
 - C99 None of the above, but in this section
- 10Dxx Automorphic theory**
- D05 Modular functions and groups
 - D10 Automorphic functions, one variable
 - D15 Automorphic forms, one variable
 - D20 Automorphic theory, several variables
 - D25 Complex multiplication [See also 14K22.]
 - D99 None of the above, but in this section
- 10Exx Geometry of numbers**
- E05 Lattices and convex bodies [See also 10J25.]
 - E10 Nonconvex bodies
 - E15 Products of linear forms
 - E20 Minima of forms
 - E25 Quadratic forms (reduction, extreme forms, etc.)
 - E30 Lattice packing and covering [See also 05B40, 52A40.]
 - E35 Mean value theorems
 - E40 Transfer theorems
 - E45 Automorphism groups of lattices
 - E99 None of the above, but in this section
- 10Fxx Diophantine approximation** [See also 10Kxx.]
- F05 Approximation to one number

- F10 Simultaneous approximation
 - F15 Nonhomogeneous approximation
 - F20 Continued fractions and generalizations [See also 10A30.]
 - F25 Approximation to algebraic numbers
 - F30 Approximation by numbers from a fixed field
 - F35 Irrationality and transcendence
 - F40 Distribution modulo one [See also 10K05.]
 - F45 Approximation in nonarchimedean valuations
 - F99 None of the above, but in this section
- 10G05 Exponential sums, character sums**
- 10Hxx Multiplicative theory**
- H05 Riemann zeta-function
 - H10 Other zeta-functions, L -functions [For local and global ground fields, see 12A70, 12A80, 12B30, 12B35; for algebraic-geometric methods, see 14G10.]
 - H15 Distribution of primes and of integers with specified multiplicative properties
 - H20 Distribution in progressions and other sequences
 - H25 Asymptotic results on arithmetic functions
 - H30 Sieves
 - H35 Distribution of residue classes (primitive roots, power residues, etc.)
 - H40 Generalized primes and integers
 - H99 None of the above, but in this section
- 10Jxx Additive theory**
- J05 Sums of squares
 - J10 Applications of Hardy-Littlewood method [See also 10B35.]
 - J15 Additive questions involving primes
 - J20 Analytic work on partitions [See also 10A45.]
 - J25 Lattice points in large regions
 - J99 None of the above, but in this section
- 10Kxx Probabilistic theory; measure, dimension, etc.**
- K05 Distribution modulo one
 - K10 Algorithms and expansions
 - K15 Diophantine approximation
 - K20 Arithmetic functions
 - K25 Normal numbers
 - K30 Irregularities of distribution
 - K35 Harmonic analysis and almost periodicity
 - K40 Nonarchimedean theory
 - K99 None of the above, but in this section
- 10Lxx Sequences of integers**
- L05 Addition of sequences
 - L10 Special sequences (density, etc.)
 - L15 Representation functions
 - L99 None of the above, but in this section
- 10Mxx Rational arithmetic of algebraic objects**
- M05 Polynomials [See also 13F20.]
 - M10 Valued fields
 - M15 Ordered fields
 - M20 Matrices [See also 15A36.]
 - M99 None of the above, but in this section
- 10Nxx Connections with logic**
- N05 Decidability
 - N10 Ultraproducts
 - N15 Nonstandard arithmetic [See also 02H25.]
 - N99 None of the above, but in this section

**12—XX ALGEBRAIC NUMBER THEORY, FIELD THEORY
AND POLYNOMIALS**

- 00 Difficult to classify at the second level
(must also be assigned at least one other
classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys,
etc.)
- 03 Historical
- 04 Explicit machine computation and pro-
grams (not the theory of computation or
programming)

12Axx Algebraic number theory: global fields

(For complex multiplication, see 10D25.)

- A05 Analogues in number fields of elementary
number theory
- A10 Characterizations of algebraic numbers
and algebraic functions
- A15 Special algebraic numbers (PV numbers,
etc.)
- A20 Polynomials (irreducibility, etc.)
- A25 Quadratic fields
- A30 Cubic and quartic fields
- A35 Abelian and metabelian extensions (in-
cluding cyclotomic, Kummer, cyclic)
- A40 Other number fields
- A45 Units and factorization
- A50 Class number, discriminant
- A55 Galois theory
- A60 Galois cohomology
- A65 Class field theory
- A70 Zeta-functions and L -functions of
number fields [See also 10H10.]
- A75 Density theorems
- A80 Arithmetic and zeta-functions of algebras
- A85 Analysis in adèle rings and groups
- A90 Arithmetic theory of algebraic function
fields [See also 14—XX.]
- A95 Totally real and totally positive fields
- A99 None of the above, but in this section

12Bxx Algebraic number theory: local and p -adic fields

- B05 Polynomials
- B10 Ramification and extension theory
- B15 Galois theory
- B20 Galois cohomology
- B25 Class field theory
- B30 Zeta- and L -functions [See also 10H10.]
- B35 Arithmetic and zeta-functions of algebras
- B40 Other analytic theory
- B99 None of the above, but in this section

12Cxx Finite fields and finite commutative rings

- C05 Polynomials
- C10 Linear sequences
- C15 Arithmetic
- C20 Cyclotomy
- C25 Exponential sums
- C30 Structure theory
- C99 None of the above, but in this section

12Dxx Real and complex fields

- D05 Polynomials: factorization
- D10 Polynomials: location of zeros [Algebraic
theorems; for the analytic theory, see
26A78, 30A08.]
- D15 Formally real fields
- D99 None of the above, but in this section

12Exx General field theory

- E05 Polynomials (irreducibility, etc.)

E10 Special polynomials

- E99 None of the above, but in this section

12Fxx Field extensions

- F05 Algebraic extensions
- F10 Separable extensions, Galois theory
- F15 Inseparable extensions, derivations
- F20 Transcendental extensions
- F99 None of the above, but in this section

12Gxx Homological methods

- G05 Galois cohomology [See also 12A60,
18H10.]
- G10 Cohomological dimension
- G99 None of the above, but in this section

12Hxx Differential and difference algebra

- H05 Differential algebra
- H10 Difference algebra

12Jxx Topological fields

- J05 Normed fields
- J10 Valued fields
- J15 Ordered fields
- J20 General valuation theory
- J99 None of the above, but in this section

12K05 Near-fields and other generalizations**12Lxx Connections with logic**

- L05 Decidability
- L10 Ultraproducts
- L15 Nonstandard arithmetic [See also 02H25.]
- L99 None of the above, but in this section

13—XX COMMUTATIVE RINGS AND ALGEBRAS

(For finite commutative rings, see 12Cxx.)

- 00 Difficult to classify at the second level
(must also be assigned at least one other
classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys,
etc.)
- 03 Historical
- 04 Explicit machine computation and pro-
grams (not the theory of computation or
programming)

13Axx General commutative ring theory

- A05 Divisibility
- A10 Radical theory
- A15 Ideals, prime ideals, valuations and
generalizations
- A20 Brauer group [See also 16A16.]
- A99 None of the above, but in this section

13Bxx Ring extensions and related topics

- B05 Galois theory
- B10 Automorphisms and derivations
- B15 Ramification theory
- B20 Integral dependence; integral closure;
integrally closed rings, related rings
(Japanese, etc.)
- B25 Polynomials over commutative rings
- B99 None of the above, but in this section

13Cxx Theory of modules and ideals

- C05 Structure, classification theorems
- C10 Special types (projective, injective, free,
flat, torsion, reflexive, etc.) [See also
18G05.]
- C15 Dimension theory, depth, related rings
(catenary, etc.)
- C99 None of the above, but in this section

- 13Dxx Homological methods** (For cohomology of rings and algebras, see 18H20.)
 D05 Homological dimension
 D10 Deformations and infinitesimal methods
 D15 Class group, Grothendieck group, K -theory [See also 18F25.]
 D99 None of the above, but in this section
- 13Exx Chain conditions**
 E05 Noetherian rings
 E10 Artin rings, finite dimensional algebras
 E99 None of the above, but in this section
- 13Fxx Arithmetic rings**
 F05 Dedekind and Prüfer rings and their generalizations
 F10 Principal ideal rings
 F15 Factorial rings, unique factorization domains
 F20 Polynomial rings [See also 10M05.]
 F99 None of the above, but in this section
- 13G05 Integral domains**
- 13Hxx Local rings and semilocal rings**
 H05 Regular local rings
 H10 Special types (Macaulay, Gorenstein, etc.)
 H15 Multiplicity theory and related topics
 H99 None of the above, but in this section
- 13Jxx Topological rings** (For ordered rings, see 06A70; see also 16A80.)
 J05 Power series rings
 J10 Complete rings
 J15 Henselian rings
 J20 Global topological rings
 J99 None of the above, but in this section
- 13K05 Witt vectors and related rings**
- 13L05 Applications of logic to commutative algebra**

14—XX ALGEBRAIC GEOMETRY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 14Axx Foundations**
 A05 Relevant commutative algebra [See also 13—XX.]
 A10 Varieties
 A15 Schemes
 A20 Generalizations (algebraic spaces, motifs)
 A25 Elementary questions
 A99 None of the above, but in this section
- 14Bxx Local theory**
 B05 Singularities [See also 14E15.]
 B10 Infinitesimal methods
 B15 Local cohomology [See also 18F20.]
 B20 Formal neighborhoods
 B99 None of the above, but in this section
- 14Cxx Cycles and subschemes**
 C05 Parametrization (Chow and Hilbert schemes)
 C10 Equivalence relations
 C15 Rational equivalence rings, intersection theory

- C20 Divisors, linear systems, Picard groups
 C25 Zero-cycles
 C30 Transcendental methods, Hodge theory
 C99 None of the above, but in this section
- 14Dxx Families, fibrations**
 D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)
 D10 Arithmetic ground fields (finite, local, global)
 D15 Formal methods; deformations [See also 32Gxx.]
 D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]
 D99 None of the above, but in this section
- 14Exx Mappings and correspondences**
 E05 Rational maps, birational correspondences
 E10 General correspondences
 E15 Global theory of singularities, resolution
 E20 Coverings, fundamental group
 E25 Embeddings
 E30 Minimal models
 E35 Results in dimension ≤ 3
 E99 None of the above, but in this section
- 14Fxx Cohomology theory** (See also 13Dxx, 18—XX.)
 F05 Vector bundles, sheaves, related constructions
 F10 Differentials and other special sheaves
 F15 Serre cohomology, K -theory [See also 13D15, 18F25.]
 F20 Grothendieck cohomology and topology
 F25 Classical real and complex cohomology
 F30 p -adic cohomology
 F35 Homotopy theory
 F99 None of the above, but in this section
- 14Gxx Arithmetic problems** (For complex multiplication, see 10D25, 14K22.)
 G05 Rationality questions
 G10 Zeta-functions and related questions
 G13 Weil-Tate conjectures
 G15 Finite ground fields
 G20 p -adic ground fields (local fields)
 G25 Global ground fields
 G99 None of the above, but in this section
- 14Hxx Curves**
 H05 Algebraic function fields
 H10 Families, moduli (algebraic)
 H15 Families, moduli (analytic) [See also 32G15.]
 H20 Singularities, local rings
 H25 Arithmetic ground fields
 H30 Coverings, fundamental group
 H35 Correspondences
 H40 Jacobians [See also 32G20.]
 H45 Special curves
 H99 None of the above, but in this section
- 14Jxx Surfaces and 3-dimensional varieties**
 J05 Picard group
 J10 Families, moduli, classification: algebraic theory
 J15 Singularities, moduli, classification: analytic theory [See also 32J15.]
 J20 Arithmetic ground fields
 J25 Special surfaces
 J99 None of the above, but in this section
- 14Kxx Abelian varieties and schemes**
 K05 Algebraic theory
 K10 Algebraic moduli, classification

- K15 Arithmetic ground fields
- K20 Analytic theory
- K22 Complex multiplication [See also 10D25.]
- K25 δ -functions
- K30 Picard schemes, higher Jacobians
- K99 None of the above, but in this section

14Lxx Group schemes [For linear algebraic groups, see 20Gxx.]

- L05 Formal groups, p -divisible groups
- L10 Group varieties
- L15 Group schemes
- L20 Finite group schemes
- L25 Pro-algebraic group schemes
- L99 None of the above, but in this section

14Mxx Special varieties

- M05 Varieties defined by ring conditions (factorial, Macaulay)
- M10 Complete intersections
- M15 Grassmannians, homogeneous spaces
- M20 Rational varieties
- M99 None of the above, but in this section

14Nxx Classical methods and problems

- N05 Projective techniques
- N10 Enumerative problems
- N99 None of the above, but in this section

15—XX LINEAR AND MULTILINEAR ALGEBRA; MATRIX THEORY (finite and infinite)

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A03 Vector spaces, linear dependence, rank
- A06 Linear equations
- A09 Matrix inversion, generalized inverses
- A12 Conditioning of matrices [See also 65F35.]
- A15 Determinants, permanents, other special matrix functions
- A18 Eigenvalues and eigenvectors
- A21 Canonical forms, reductions, classification
- A24 Matrix equations and identities
- A27 Commutativity
- A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]
- A33 Matrices over special rings (quaternions, finite fields, etc.)
- A36 Matrices of integers [See also 10M20.]
- A39 Linear inequalities
- A42 Inequalities involving eigenvalues and eigenvectors
- A45 Miscellaneous inequalities involving matrices
- A48 Positive matrices and their generalizations
- A51 Stochastic matrices
- A54 Matrices over function rings in one or more variables
- A57 Other types of matrices (hermitian, skew-hermitian, etc.)
- A60 Norms of matrices, applications of functional analysis to matrix theory [See also 65F35, 65J05.]

- A63 Quadratic and bilinear forms, inner products
- A66 Clifford algebras
- A69 Multilinear algebra, tensor products
- A72 Vector and tensor algebra, theory of invariants
- A75 Exterior algebra, Grassmann algebras
- A78 Other algebras built from modules

16—XX ASSOCIATIVE RINGS AND ALGEBRAS [For the commutative case, see 13—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A02 Integral domains, unique factorization domains (noncommutative)
- A04 Noncommutative principal ideal rings, rings with a division algorithm
- A06 Free algebras, free ideal rings (fir) and their generalizations [See also tensor algebra in 15A72.]
- A08 Rings of quotients, noncommutative localization
- A10 Noncommutative local rings
- A12 Prime and semiprime rings
- A14 Noncommutative analogues of Dedekind and Prüfer domains
- A16 Separable algebras, Azumaya algebras and their generalizations [See also 13A20.]
- A18 Orders, arithmetic in algebras
- A20 Primitive and semiprimitive rings
- A21 Radical theory
- A22 Nil, nilpotent and radical rings
- A24 Hopf algebras, algebraic theory [See also 57F05.]
- A26 Group rings [See also 20C05.]
- A28 Rings with involution [See also 46Kxx.]
- A30 von Neumann regular rings and their generalizations [See also 06A30.]
- A32 Idempotents in rings
- A34 Rings with annihilator conditions
- A36 Frobenius algebras, quasi-Frobenius rings and their generalizations
- A38 Rings with polynomial identity
- A40 Division rings, simple and semisimple Artin rings
- A42 Rings of linear transformations, matrix rings, infinite matrix rings
- A44 Finite rings [See also 12Cxx.]
- A46 Chain conditions; finite dimensional algebras, Artin rings, Noetherian rings
- A48 Structure, classification
- A49 Duality theory
- A50 Projective and flat modules and generalizations
- A52 Injective modules, self-injective rings and generalizations
- A54 Grothendieck groups of rings, K -theory of noncommutative rings [See also 18F25.]

- A56 Extension theory
- A58 Deformation theory of rings and algebras
[See also 13D10, 32Gxx.]
- A60 Homological dimension
- A62 Homological methods [For cohomology
of algebras and rings, see 18H15.]
- A64 Modules and representations
- A66 Ideal theory, prime ideals and their
generalizations
- A68 Lie, Jordan and other nonassociative
structures on associative rings
- A70 Commutativity theorems
- A72 Automorphisms, derivations
- A74 Galois theory
- A76 Near rings
- A78 Semirings and other generalizations of
rings
- A80 Topological rings and semirings [For
ordered rings, see 06A70; see also 13Jxx.]

17-XX NONASSOCIATIVE RINGS AND ALGEBRAS

- 00 Difficult to classify at the second level
(must also be assigned at least one other
classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys,
etc.)
- 03 Historical
- 04 Explicit machine computation and pro-
grams (not the theory of computation or
programming)

17Axx General nonassociative algebras

- A05 Power-associative
- A10 Commutative power-associative
- A15 Noncommutative Jordan algebras
- A20 Flexible algebras
- A25 Nodal algebras
- A30 Algebras satisfying other identities
- A99 None of the above, but in this section

17Bxx Lie algebras [For Lie groups, see 22Exx.]

- B05 Structure theory
- B10 Representations, algebraic theory
(weights)
- B15 Representations, analytic theory
- B20 Simple, semisimple, reductive algebras
(roots)
- B25 Exceptional algebras
- B30 Solvable, nilpotent algebras
- B35 Universal enveloping algebras
- B40 Automorphisms, derivations, other
operators
- B45 Lie algebras of linear algebraic groups
[See also 14Lxx and 20Gxx.]
- B50 Lie p -algebras and bialgebras (Hopf
algebras) of formal groups [See also
14L05, 16A24.]
- B55 Homological methods in Lie algebra [For
homology of Lie algebras, see 18H25.]
- B60 Lie rings associated with other structures
(associative, Jordan, etc.) [See also
15A30, 16A68, 17C40, 17C50.]
- B65 Infinite dimensional Lie algebras [See
also 22E65.]
- B99 None of the above, but in this section

17Cxx Jordan algebras (commutative)

- C05 Identities
- C10 Structure theory

- C15 Representations
- C20 Simple, semisimple algebras
- C25 Universal enveloping algebras
- C30 Automorphisms, derivations, other
operators
- C35 Formally real domains of positivity
[See also 32Nxx.]
- C40 Exceptional Jordan algebras and asso-
ciated Lie groups
- C45 Homological methods in Jordan algebras
[For homology of Jordan algebras, see
18H30.]
- C50 Jordan rings associated with other
structures [See also 16A68, 17B60.]
- C99 None of the above, but in this section

17D05 Alternative rings**17E05 Other nonassociative rings and algebras****18-XX CATEGORY THEORY, HOMOLOGICAL ALGEBRA**

- 00 Difficult to classify at the second level
(must also be assigned at least one other
classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys,
etc.)
- 04 Explicit machine computation and pro-
grams (not the theory of computation or
programming)

18Axx General theory of categories and functors

- A05 Definitions, generalizations
- A10 Graphs, groupoids, neofunctors [See
also 20Lxx.]
- A15 Foundations, relations to logic and de-
ductive systems [See also 02-XX.]
- A20 Epimorphisms, monomorphisms, special
classes of morphisms, null morphisms,
factorization (bicatagories)
- A25 Functor categories, comma categories
- A30 Limits and colimits (products, sums,
pushouts, fiber products, equalizers,
kernels, ends and coends, etc.)
- A35 Complete categories, completions
- A40 Adjoint functors (representable functors,
universal constructions, reflexive sub-
categories, etc.), constructions of ad-
joint (Kan extensions, etc.)
- A99 None of the above, but in this section

18Bxx Special categories

- B05 Category of sets, characterizations
- B10 Category of relations, additive relations,
semigroups [See also 20Mxx.]
- B15 Embedding theorems, universal cate-
gories [See also 18E20.]
- B20 Categories of machines, automata, oper-
ative categories [See also 02F10, 68A25,
94A30, 94A35.]

18Cxx Categories and algebraic theories

- C05 Equational categories [See also 02-XX.]
- C10 Theories (e.g. algebraic theories), struc-
ture, and semantics
- C15 Triples (= standard construction, monad
or triad), algebras for a triple, homology
and derived functors for triples [See
also 18Gxx.]
- C99 None of the above, but in this section

18Dxx Categories with structure

- D05 Double categories, 2-categories, bicategories, hypercategories
- D10 Monoidal categories (= multiplicative categories)
- D15 Closed categories (closed monoidal and cartesian closed categories, etc.)
- D20 Enriched categories (over closed or monoidal categories)
- D25 Strong functors, strong adjunctions
- D30 Fibered categories
- D35 Structured objects in a category (group objects, etc.)
- D99 None of the above, but in this section

18Exx Abelian categories

- E05 Preadditive, additive categories
- E10 Exact categories, abelian categories
- E15 Grothendieck categories
- E20 Embedding theorems [See also 18B10.]
- E25 Derived functors and satellites
- E30 Derived categories, triangulated categories
- E35 Localization of categories
- E40 Torsion theories, radicals
- E99 None of the above, but in this section

18Fxx Categories and geometry

- F05 Local categories and functors
- F10 Grothendieck topologies [See also 14F20.]
- F15 Abstract manifolds and fiber bundles [See also 55Fxx, 57Bxx.]
- F20 Presheaves and sheaves [See also 14F05, 32C35, 32L10, 55B30.]
- F25 Algebraic K-theory [See also 13D15, 14F15, 16A54.]
- F30 Grothendieck groups [See also 13D15, 16A54.]
- F99 None of the above, but in this section

18Gxx Homological algebra

- G05 Projectives and injectives [See also 13C10, 16A50, 16A52.]
- G10 Resolutions; derived functors [See also 18E25.]
- G15 Ext and Tor, generalizations, Künneth formula [See also 55J25.]
- G20 Homological dimension [See also 13Dxx, 16A62.]
- G25 Relative homological algebra, projective classes
- G30 Simplicial sets, simplicial objects (in a category) [See also 55J10.]
- G35 Chain complexes [See also 18E30, 55J15.]
- G40 Spectral sequences, hypercohomology [See also 55Hxx.]
- G99 None of the above, but in this section

18Hxx Cohomology of specified algebraic systems

- H05 General methods; models [See also 18E25, 18G25.]
- H10 Cohomology and homology of groups [See also 20Jxx.]
- H15 Cohomology and homology of algebras and rings [See also 16A62.]
- H20 Cohomology and homology of commutative rings [See also 13Dxx.]
- H25 Cohomology of Lie algebras [See also 17B55.]
- H30 Cohomology of Jordan algebras [See also 17C45.]

H35 Cohomology of other nonassociative algebras [See also 17—XX.]

H40 Cohomology of other algebraic systems

H99 None of the above, but in this section

20—XX GROUP THEORY AND GENERALIZATIONS (For ordered groups, see 06A55.)

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

20Axx Foundations

- A05 Axiomatics and elementary properties
- A10 Metamathematical considerations [For word problems, see 20F10.]
- A99 None of the above, but in this section

20Bxx Finite permutation groups

- B05 General theory
- B10 Characterization theorems
- B15 Uniprimitive groups
- B20 Multiply transitive groups
- B25 Automorphism groups of algebraic, geometric, or combinatorial structures [See also 06Bxx, 20G40, 20H30, 50—XX.]
- B99 None of the above, but in this section

20Cxx Representation theory of finite groups

- C05 Group rings and their modules [See also 16A26.]
- C10 Integral representations
- C15 Ordinary representations and characters
- C20 Modular representations and characters
- C25 Projective representations and multipliers
- C30 Representations of symmetric groups and other special groups
- C35 Applications to physics
- C99 None of the above, but in this section

20Dxx Abstract finite groups

- D05 Simple groups [See also 20G40.]
- D10 Solvable groups
- D15 Nilpotent groups, p -groups
- D20 Sylow subgroups, π -groups
- D25 Special subgroups (Frattini, Fitting, etc.)
- D30 Series and lattices of subgroups
- D35 Subnormal subgroups
- D40 Products of subgroups
- D45 Automorphisms
- D99 None of the above, but in this section

20Exx Infinite groups

- E05 Free nonabelian groups
- E10 Varieties of groups
- E15 Chains of subgroups (solvable groups, nilpotent groups, etc.)
- E20 Special subgroups other than commutator types
- E25 Local properties, residual properties
- E30 Free products, generalized properties
- E35 Representation in associative rings, Lie rings, combinatorial structures, etc.
- E40 Fundamental groups, etc. [See also 55A05, 57Exx.]
- E99 None of the above, but in this section

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 20Fxx** General groups, finite or infinite
- F05 Generators and relations
 - F10 Word problems
 - F15 Structure theorems
 - F20 Limits, profinite groups
 - F25 Extensions, wreath products, other compositions
 - F30 Subgroup lattices, maximal subgroups, subnormal subgroups, etc.
 - F35 Commutator subgroups and their generalizations
 - F40 Associated Lie structures
 - F45 Engel conditions
 - F50 Periodic groups
 - F55 Automorphisms
 - F99 None of the above, but in this section
- 20Gxx** Linear algebraic groups (classical groups)
[See also 10C30, 14—XX; for analytic methods on p -adic groups and adèle groups, see 22E55.]
- G05 Representation theory [For infinite dimensional representations, see 22E50.]
 - G10 Cohomology theory
 - G15 Linear algebraic groups over arbitrary fields
 - G20 Linear algebraic groups over the reals, the complexes, the quaternions
 - G25 Linear algebraic groups over local fields and their integers
 - G30 Linear algebraic groups over global fields and their integers
 - G35 Linear algebraic groups over adèles and other rings and schemes
 - G40 Linear algebraic groups over finite fields
 - G45 Applications to physics; explicit representations
 - G99 None of the above, but in this section
- 20Hxx** Other groups of matrices
- H05 Unimodular groups, congruence subgroups
 - H10 Fuchsian groups and their generalizations [See also 30A58, 32Nxx.]
 - H15 Other geometric groups, including crystallographic groups [See also 50—XX.]
 - H20 Other matrix groups over fields
 - H25 Other matrix groups over rings
 - H30 Other matrix groups over finite fields
 - H99 None of the above, but in this section
- 20Jxx** Connections with homological algebra and category theory
- J05 Homological methods in group theory
 - J10 Groups arising as cohomology groups
 - J15 Category of groups
 - J99 None of the above, but in this section
- 20Kxx** Abelian groups
- K05 Finitely generated groups
 - K10 Torsion groups
 - K15 Torsion free groups, finite rank
 - K20 Torsion free groups, infinite rank
 - K25 Direct sums, direct products, etc.
 - K30 Automorphisms, homomorphisms, endomorphisms
 - K35 Extensions
 - K40 Homological and categorical methods [See also 18H10.]
 - K45 Topological methods
 - K99 None of the above, but in this section

- 20Lxx** Groupoids (small categories in which all morphisms are isomorphisms)
- L05 General theory
 - L10 Connections with group theory
 - L15 Connections with topology
 - L99 None of the above, but in this section
- 20Mxx** Semigroups
- M05 Free semigroups, generators and relations, word problem
 - M10 Structure theory, ideals, idempotents, etc.
 - M15 Mappings of semigroups
 - M20 Semigroups of transformations, etc. [See also 47D05.]
 - M25 Semigroup rings, multiplicative semigroups of rings
 - M30 Representation of semigroups
 - M35 Semigroups in automata theory, linguistics, etc. [See also 02F10.]
 - M99 None of the above, but in this section
- 20Nxx** Other generalizations of groups
- N05 Loops, quasigroups [See also 05Bxx.]
 - N10 Ternary systems (heaps, semiheaps, heapoids, etc.)
 - N15 n -ary systems
 - N99 None of the above, but in this section

- 22—XX** TOPOLOGICAL GROUPS, LIE GROUPS [For transformation groups, see 54H15, 57Exx, 58—XX. For abstract harmonic analysis, see 43—XX.]
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
 - 04 Explicit machine computation and programs (not the theory of computation or programming)
- 22Axx** Topological algebraic systems [For topological rings and fields, see 12Jxx, 13Jxx, 16A80; for dual spaces of operator algebras and topological groups, see 46L05.]
- A05 Structure of general topological groups
 - A10 Analysis on general topological groups
 - A15 Structure of topological semigroups
 - A20 Analysis on topological semigroups
 - A25 Representations of general topological groups and semigroups
 - A30 Representations of other topological algebraic systems
 - A99 None of the above, but in this section
- 22Bxx** Locally compact abelian groups (LCA groups)
- B05 General properties and structure of LCA groups
 - B10 Structure of group algebras of LCA groups
 - B99 None of the above, but in this section
- 22C05** Compact groups
- 22Dxx** Locally compact groups and their algebras
- D05 General properties and structure of locally compact groups
 - D10 Unitary representations of locally compact groups
 - D12 Other representations of locally compact groups

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- D15 Group algebras of locally compact groups
- D20 Representations of group algebras
- D25 C^* -algebras and W^* -algebras arising from group representations
- D30 Induced representations
- D35 Duality theorems
- D40 Ergodic theory on groups [See also 28A65.]
- D45 Automorphism groups of locally compact groups
- D99 None of the above, but in this section
- 22Exx Lie groups [For the topology of Lie groups and homogeneous spaces, see 57Exx, 57Fxx; for the analysis thereof, see 43A90, 43A85, 43A90.]
- E05 Local Lie groups [See also 34—XX, 35—XX, 58H05.]
- E10 General properties and structure of complex Lie groups
- E15 General properties and structure of real Lie groups
- E20 General properties and structure of other Lie groups
- E25 Nilpotent and solvable Lie groups
- E30 Analysis on real and complex Lie groups [See also 33A75, 43—XX.]
- E35 Analysis on p -adic Lie groups [See also 12A85.]
- E40 Discrete subgroups of Lie groups [See also 32Nxx.]
- E43 Structure and representation of the Lorentz group
- E45 Representations of Lie and linear algebraic groups: analytic methods [For the purely algebraic theory, see 20G05.]
- E50 Representations of Lie and linear algebraic groups over local fields: analytic methods [For the purely algebraic theory, see 20G05.]
- E55 Representations of Lie and linear algebraic groups over global fields and adèle rings: analytic methods [For the purely algebraic theory, see 20G05.]
- E60 Lie algebras of Lie groups [For the algebraic theory of Lie algebras, see 17Bxx.]
- E65 Infinite dimensional Lie groups and their Lie algebras [See also 17B65, 58H05.]
- E70 Applications of Lie groups to physics; explicit representations [See also 81—XX.]
- E99 None of the above, but in this section

26—XX REAL FUNCTIONS [See also 54C30.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A03 Foundations: limits and generalizations, elementary topology of the line
- A06 One-variable calculus
- A09 Elementary functions

- A12 Rate of growth of functions, orders of infinity, slowly increasing functions [See also 26A48.]

- A15 Continuity and related questions (modulus of continuity, semicontinuity, discontinuities, etc.) [For properties determined by Fourier coefficients, see 42A16; for those determined by approximation properties, see 41A25.]

- A16 Lipschitz (Hölder) classes

- A18 Iteration [See also 39A20.]

- A21 Classification of real functions; Baire classification of sets and functions [See also 04A15, 28A05, 54C50.]

- A24 Differentiation (functions of one variable): general theory, generalized derivatives, mean-value theorems [See also 28A15.]

- A27 Nondifferentiability (nondifferentiable functions, points of nondifferentiability), discontinuous derivatives

- A30 Singular functions, Cantor functions, functions with other special properties

- A33 Fractional derivatives and integrals

- A36 Antidifferentiation

- A39 Denjoy and Perron integrals, other special integrals

- A42 Integrals of Riemann, Stieltjes and Lebesgue type [See also 28—XX.]

- A45 Functions of bounded variation, generalizations

- A48 Monotonic functions, generalizations

- A51 Convexity, generalizations

- A54 Several variables: continuity and differentiation questions

- A57 Several variables: implicit function theorems, Jacobians, transformations with several variables

- A60 Calculus of vector functions

- A63 Integration: length, area, volume

- A66 Integral formulas (Stokes, Gauss, Green, etc.)

- A69 Special properties of functions of several variables, Hölder conditions, etc.

- A72 Superposition of functions

- A75 Polynomials (analytic properties, inequalities, etc.)

- A78 Polynomials (location of zeros) [See also 12D10, 30A08, 65H05.]

- A81 Rational functions

- A82 Inequalities for trigonometric functions and polynomials

- A84 Inequalities involving derivatives and differential and integral operators

- A86 Inequalities for sums, series and integrals

- A87 Other analytical inequalities

- A90 Real-analytic functions

- A93 C^∞ -functions, quasi-analytic functions
- A96 Calculus of functions on infinite-dimensional spaces

- A98 Nonstandard analysis [See also 02H25.]

28—XX MEASURE AND INTEGRATION [For analysis on manifolds, see 58—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Classes of sets (Borel fields, σ -rings, etc.) measurable sets, Suslin sets, analytic sets [See also 04A15, 26A21, 54H05.]
- A10 Real- or complex-valued set functions, contents, measures, outer measures, capacities, etc.
- A15 Abstract differentiation theory, differentiation of set functions [See also 26A24.]
- A20 Measurable and nonmeasurable functions, sequences of measurable functions, modes of convergence
- A25 Integration with respect to measures and other set functions
- A30 Integration theory via linear functionals (Radon measures, Daniell integrals, etc.)
- A35 Measures and integrals in product spaces
- A40 Measures and integrals in function spaces and linear spaces, Wiener measure [See also 46Gxx.]
- A45 Vector-valued measures and integrals, integration of vector-valued functions [See also 46G10.]
- A50 Integration and disintegration of measures [For lifting theory, see 46G15.]
- A55 Measures and integrals with values in general ordered systems
- A60 Measures on Boolean rings, measure algebras [See also 54H10.]
- A65 Measure-preserving transformations, flows (dynamical systems), measure-theoretic ergodic theory [See also 47A35, 54H20, 58Fxx.]
- A70 Invariant measures, Haar measure [See also 43A05.]
- A75 Length, area, volume, other geometric measure theory [See also 26A63, 49F20.]

30—XX FUNCTIONS OF A COMPLEX VARIABLE [For analysis on manifolds, see 58—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A02 Monogenic properties of complex functions (including polygenic and areolar monogenic functions)
- A04 Inequalities in the complex domain
- A06 Polynomials
- A08 Zeros of polynomials, rational functions, and other analytic functions (e.g. zeros of functions with bounded Dirichlet integral) [For algebraic theory, see 12D10; for real methods, see 26A78.]

- A10 Power series (including lacunary series)
- A12 Boundary behavior of power series, over-convergence
- A14 Analytic continuation
- A16 Dirichlet series and other series expansions, exponential series [See also 40—XX, 41—XX, 42—XX.]
- A18 Completeness problems, closure of a system of functions
- A20 Functional equations in the complex domain, iteration and composition of analytic functions [See also 34A20, 39A15.]
- A22 Continued fractions [See also 10A30, 40A15.]
- A24 Conformal mappings of special domains
- A26 Covering theorems in conformal mapping theory
- A28 Numerical methods in conformal mapping theory
- A30 General theory of conformal mappings
- A31 Kernel functions and applications
- A32 Special classes of univalent and multivalent functions (star-like, convex, bounded rotation, etc.)
- A34 Coefficient problems for univalent and multivalent functions
- A36 General theory of univalent and multivalent functions
- A38 Extremal problems, variational methods
- A40 Extremal problems, other methods
- A42 Maximum principle; Schwarz' Lemma, Lindelöf principle, analogues and generalizations
- A44 Capacity and harmonic measure in the complex plane [See also 31A15.]
- A46 Compact Riemann surfaces and uniformization [See also 14H15, 32G15.]
- A48 Classification theory of Riemann surfaces
- A50 Ideal boundary theory
- A52 Differentials on Riemann surfaces
- A58 Discontinuous groups and automorphic functions [See also 10Dxx, 20H10 and 32Nxx.]
- A60 Quasiconformal mappings and functions
- A62 Representations of entire functions by series and integrals
- A64 Special classes of entire functions and growth estimates
- A66 Entire functions, general theory
- A68 Meromorphic functions, general theory
- A70 Distribution of values, Nevanlinna theory
- A72 Cluster sets, prime ends, boundary behavior
- A74 Normal functions, normal families
- A76 Blaschke products, bounded characteristic, bounded functions, functions with positive real part
- A78 H^p , quasianalytic and other classes of functions
- A80 Moment problems, interpolation problems
- A82 Approximation in the complex domain
- A84 Asymptotic representations in the complex domain
- A86 Integration, integrals of Cauchy type, integral representations of analytic functions [See also 45Exx.]

- A88 Boundary value problems
- A90 Topological function theory
- A91 Nonstandard function theory [See also 02H25.]
- A92 Generalized analytic functions
- A93 Pseudo-analytic functions
- A94 p -analytic functions
- A95 Discrete analytic functions
- A96 Other generalizations of analytic functions (including abstract-valued functions)
- A97 Functions of hypercomplex variables and generalized variables
- A98 Spaces and algebras of analytic functions [See also 46J15.]

31—XX POTENTIAL THEORY {For probabilistic potential theory, see 60J45.}

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 31Axx Two-dimensional theory
 - A05 Harmonic, subharmonic, superharmonic functions
 - A10 Integral representations
 - A15 Potentials and capacity, harmonic measure, extremal length
 - A20 Boundary behavior (Fatou type theorems, etc.)
 - A25 Boundary value and inverse problems
 - A30 Biharmonic, polyharmonic functions and equations, Poisson's equation
 - A35 Connections with differential equations
 - A99 None of the above, but in this section
- 31Bxx Higher dimensional theory
 - B05 Harmonic, subharmonic, superharmonic functions
 - B10 Integral representations
 - B15 Potentials and capacities, extremal length
 - B20 Boundary value and inverse problems
 - B25 Boundary behavior
 - B30 Biharmonic and polyharmonic equations and functions
 - B35 Connections with differential equations
 - B99 None of the above, but in this section
- 31Cxx Other generalizations
 - C05 Harmonic, subharmonic, superharmonic functions
 - C10 Pluriharmonic and plurisubharmonic functions [See also 32F06.]
 - C15 Potentials and capacities
 - C20 Discrete potential theory and numerical methods
 - C25 Dirichlet spaces
 - C99 None of the above, but in this section
- 31D05 Axiomatic potential theory

32—XX SEVERAL COMPLEX VARIABLES AND ANALYTIC SPACES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 32Axx Holomorphic functions of several complex variables
 - A05 Power series, series of functions
 - A07 Special domains (Reinhardt, Hartogs, tube domains, etc.)
 - A10 Holomorphic functions
 - A15 Entire functions
 - A17 Normal families
 - A20 Meromorphic functions
 - A25 Integral representation and residue theory
 - A30 Other generalizations of function theory of one complex variable [For functions of several hypercomplex variables, see 30A97.]
 - A99 None of the above, but in this section
- 32Bxx Local analytic geometry [See also 13—XX and 14—XX.]
 - B05 Analytic algebras and generalizations, preparation theorems
 - B10 Germs of analytic sets
 - B15 Analytic subsets of affine space
 - B20 Semi-analytic sets
 - B99 None of the above, but in this section
- 32Cxx General theory of analytic spaces
 - C05 Real-analytic manifolds, real-analytic spaces
 - C10 Complex manifolds [For almost complex manifolds, see 53C15.]
 - C15 Complex spaces
 - C20 Normal analytic spaces
 - C25 Analytic subsets and submanifolds
 - C30 Integration on analytic sets and spaces
 - C35 Analytic sheaves and cohomology groups [See also 18F20, 55B30.]
 - C40 Singularities
 - C45 Modifications, resolution of singularities [See also 14E15.]
 - C99 None of the above, but in this section
- 32Dxx Analytic continuation
 - D05 Domains of holomorphy
 - D10 Envelopes of holomorphy
 - D15 Continuation of analytic objects
 - D20 Removable singularities
 - D99 None of the above, but in this section
- 32Exx Holomorphic convexity
 - E05 Holomorphically convex complex spaces, reduction theory
 - E10 Stein spaces, Stein manifolds
 - E15 Runge pairs
 - E20 Polynomial convexity
 - E25 Algebras of holomorphic functions
 - E30 Holomorphic and polynomial approximation
 - E99 None of the above, but in this section

32Fxx Geometric convexity

- F05 Plurisubharmonic functions and generalizations [See also 31C10.]
- F10 q -convexity, q -concavity
- F15 Pseudoconvex domains
- F99 None of the above, but in this section [For the theory of the $\bar{\partial}$ -Neumann problem on pseudoconvex domains, see 35N15.]

32Gxx Deformations of analytic structures

- G05 Deformations of complex structures [See also 13D10, 16A58, 58H05.]
- G10 Deformations of submanifolds and subspaces
- G13 Analytic moduli problems [For algebraic moduli problems, see 14D20.]
- G15 Moduli of Riemann surfaces, Teichmüller theory [See also 30A46.]
- G20 Period matrices
- G99 None of the above, but in this section

32Hxx Analytic mappings

- H05 Representative domains
- H10 Bergman kernel function
- H15 Invariant metrics and pseudodistances
- H20 Hyperbolic complex manifolds
- H25 Picard type theorems and generalizations
- H99 None of the above, but in this section

32Jxx Compact analytic spaces [For Riemann surfaces, see 14Hxx, 30A46.]

- J05 Compactification
- J10 Algebraic dependence theorems
- J15 Compact surfaces [See also 14Jxx.]
- J20 Algebraicity criteria
- J25 Transcendental methods of algebraic geometry [See also 14C30.]
- J99 None of the above, but in this section

32Kxx Generalizations of analytic spaces

- K05 Banach analytic spaces [See also 58Bxx.]
- K10 Nonarchimedean analytic spaces
- K15 Differentiable functions on analytic spaces, differentiable spaces [See also 58C25.]
- K99 None of the above, but in this section

32Lxx Holomorphic fiber spaces [See also 55Fxx.]

- L05 Holomorphic fiber bundles and generalizations
- L10 Sheaves and cohomology of sections of holomorphic vector bundles [See also 18F20, 55B30.]
- L99 None of the above, but in this section

32Mxx Complex spaces with a group of automorphisms

- M05 Complex Lie groups, automorphism groups of complex spaces [See also 22E10.]
- M10 Homogeneous complex manifolds [See also 57F15.]
- M15 Hermitian symmetric spaces, bounded symmetric domains [See also 22E10, 22E40, 53C35, 57F15.]
- M99 None of the above, but in this section

32Nxx Automorphic functions [See also 10Dxx, 20H10, 22E40, 30A58.]

- N05 General theory of automorphic functions of several complex variables
- N10 Automorphic forms
- N15 Automorphic functions in symmetric domains
- N99 None of the above, but in this section

33—XX SPECIAL FUNCTIONS [33—XX deals with the properties of functions as functions. General systems of orthogonal functions are treated in 42A52. Expansions in orthogonal functions are treated in 42A56.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A10 Exponential and trigonometric functions
- A15 Gamma and beta functions
- A20 Error function, probability integral
- A25 Elliptic functions and integrals
- A30 Hypergeometric functions of one and several variables, generalizations
- A35 E -functions, G -functions, etc.
- A40 Cylindrical functions, Bessel functions
- A45 Spherical functions (Legendre polynomials and functions, spherical harmonics), ultraspherical polynomials
- A50 Gegenbauer functions
- A55 Lamé, Mathieu, spheroidal wave functions
- A60 Other wave functions
- A65 Orthogonal special functions and polynomials (Chebyshev, Hermite, Jacobi, Laguerre, etc.)
- A70 Other special functions
- A75 Special functions and Lie groups

34—XX ORDINARY DIFFERENTIAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

34Axx General theory

- A05 Solutions in closed form, integration by quadratures, reduction of differential equations
- A10 Initial value problems: general existence and uniqueness theorems; continuous dependence of solutions on parameters, initial conditions and boundary conditions
- A15 Initial value problems: continuation of solutions
- A20 Differential equations in the complex domain [See also 30A70.]
- A25 Analytical theory: series, transformations, transforms, operational calculus, etc. [See also 44—XX, 47E05.]
- A30 Linear equations and systems
- A35 Differential equations of infinite order
- A40 Differential inequalities
- A45 Theoretical approximation of solutions

- A50 Numerical approximation of solutions
[For numerical analysis, see 65Lxx.]
- A99 None of the above, but in this section
- 34Bxx Boundary value problems**
 - B05 Linear equations
 - B10 Multipoint boundary value problems
 - B15 Nonlinear boundary value problems
 - B20 Weyl theory and its generalizations
 - B25 Spectral theory, Sturm-Liouville, and scattering theory; eigenfunctions, eigenvalues, and expansions [See also 42—XX, 43—XX, 47Axx, 47Bxx, 47E05.]
 - B30 Special equations (Mathieu, Hill, Bessel, etc.) [See also 33—XX.]
 - B99 None of the above, but in this section
- 34Cxx Qualitative theory**
 - C05 Limit cycles, singular points
 - C10 Zeros, disconjugacy, growth, boundedness, oscillation and comparison of solutions
 - C15 Nonlinear oscillations
 - C20 Transformation and reduction of equations and systems
 - C25 Periodic and almost periodic solutions
 - C30 Manifolds of solutions, averaging method [See also 47H10, 58Fxx.]
 - C35 Dynamical systems [See also 58Fxx, 70—XX.]
 - C40 Equations and systems on manifolds [See also 58Fxx, 58Gxx.]
 - C99 None of the above, but in this section
- 34Dxx Stability theory [See also 58F10, 93Dxx.]**
 - D05 Asymptotic properties, characteristic exponents
 - D10 Perturbations
 - D15 Singular perturbations
 - D20 Ljapunov stability
 - D25 Popov-type stability
 - D30 Structural stability and analogous concepts [See also 58Fxx.]
 - D35 Stability of manifolds of solutions
 - D99 None of the above, but in this section
- 34Exx Asymptotic theory**
 - E05 Asymptotic expansions
 - E10 Perturbations
 - E15 Singular perturbations, general theory
 - E20 Singular perturbations, turning point theory, WKB-methods
 - E99 None of the above, but in this section
- 34F05 Equations and systems with randomness [See also 60K05, 93Exx.]**
- 34G05 Differential equations in Banach and other abstract spaces [See also 47Bxx.]**
- 34H05 Control problems [See also 49—XX, 93—XX.]**
- 34Jxx Functional differential equations**
 - J05 General theory
 - J10 Differential-difference equations
 - J99 None of the above, but in this section
- 34Kxx Functional-differential equations with retarded arguments, functional-differential equations with deviating arguments**
 - K05 General theory
 - K10 Boundary value problems
 - K15 Qualitative theory
 - K20 Stability theory
 - K25 Asymptotic theory
 - K99 None of the above, but in this section

35—XX PARTIAL DIFFERENTIAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 35Axx General theory**
 - A05 General existence and uniqueness theorems
 - A10 Cauchy-Kowalewski theorems
 - A15 Variational methods
 - A20 Analytic methods, singularities
 - A22 Transform methods
 - A25 Other special methods
 - A30 Geometric theory, characteristics, transformations
 - A35 Theoretical approximation to solutions
 - A40 Numerical approximation to solutions [For numerical analysis, see 65Mxx, 65Nxx, 65P05.]
 - A99 None of the above, but in this section
- 35Bxx Qualitative properties of solutions**
 - B05 Comparison theorems; oscillation, zeros and growth of solutions
 - B10 Periodic solutions
 - B15 Almost periodic solutions
 - B20 Perturbations
 - B25 Singular perturbations
 - B30 Dependence of solutions on initial and boundary data, parameters
 - B35 Stability and control, boundedness [See also 93—XX.]
 - B40 Asymptotic behavior of solutions
 - B45 Differential inequalities, a priori estimates
 - B99 None of the above, but in this section
- 35Cxx Representations of solutions**
 - C05 Solutions in closed form
 - C10 Series solutions, expansion theorems
 - C15 Integral representations
 - C99 None of the above, but in this section
- 35Dxx Generalized solutions**
 - D05 Existence of generalized solutions
 - D10 Regularity of generalized solutions
 - D99 None of the above, but in this section
- 35Exx Equations and systems with constant coefficients [See also 35N05.]**
 - E05 Fundamental solutions
 - E10 Convexity properties
 - E15 Initial value problems
 - E99 None of the above, but in this section
- 35Fxx General first order equations and systems**
 - F05 Linear equations and systems, general
 - F10 Initial value problems for linear equations and systems
 - F15 Boundary value problems for linear equations and systems
 - F20 Nonlinear equations and systems, general
 - F25 Initial value problems for nonlinear equations and systems
 - F30 Boundary value problems for nonlinear equations and systems
 - F99 None of the above, but in this section

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35Gxx General higher order equations and systems
G05 Linear equations and systems, general
G10 Initial value problems for linear equations and systems
G15 Boundary value problems for linear equations and systems
G20 Nonlinear equations and systems, general
G25 Initial value problems for nonlinear equations and systems
G30 Boundary value problems for nonlinear equations and systems
G99 None of the above, but in this section
35H05 Hypoelliptic equations and systems
35Jxx Elliptic equations and systems
J05 Laplace's equation, reduced wave equation (Helmholtz), Poisson's equation
J10 Schrödinger operator [See also 47A40.]
J15 Second order equations, general
J20 Second order equations, variational methods
J25 Second order equations, boundary value problems
J30 Higher order equations, general
J35 Higher order equations, variational problems
J40 Higher order equations, boundary value problems
J45 Systems, general
J50 Systems, variational methods
J55 Systems, boundary value problems
J60 Nonlinear equations and systems
J65 Nonlinear boundary value problems for linear equations and systems
J67 Boundary values of solutions
J70 Equations and systems of degenerate type
J99 None of the above, but in this section
35Kxx Parabolic equations and systems
K05 Heat equation
K10 Second order equations, general
K15 Second order equations, initial value problems
K20 Second order equations, boundary value problems
K25 Higher order equations, general
K30 Higher order equations, initial value problems
K35 Higher order equations, boundary value problems
K40 Systems, general
K45 Systems, initial value problems
K50 Systems, boundary value problems
K55 Nonlinear equations and systems
K60 Nonlinear boundary value problems for linear equations and systems
K99 None of the above, but in this section
35Lxx Hyperbolic equations and systems
L05 Wave equation
L10 Second order equations, general
L15 Second order equations, initial value problems
L20 Second order equations, boundary value problems
L25 Higher order equations, general
L30 Higher order equations, initial value problems
L35 Higher order equations, boundary value problems

L40 First order systems, general
L45 First order systems, initial value problems
L50 First order systems, boundary value problems
L55 Higher order hyperbolic systems
L60 Nonlinear equations and systems, general
L65 Conservation laws [See also 76Axx.]
L99 None of the above, but in this section
35M05 Equations and systems of mixed type (Tricomi, etc.) [For degenerate types, elliptic, see 35Jxx, hyperbolic, see 35Lxx, etc.]
35Nxx Overdetermined systems
N05 Constant coefficients
N10 Variable coefficients, general
N15 δ -Neumann problem and generalizations; formal complexes [See also 58G05.]
N99 None of the above, but in this section
35Pxx Spectral theory and eigenvalue problems [See also 47Axx, 47Bxx, 47F05.]
P05 General spectral theory
P10 Completeness of eigenfunctions, eigenfunction expansions
P15 Estimation of eigenvalues, upper and lower bounds
P20 Asymptotic distribution of eigenvalues and eigenfunctions
P25 Scattering theory [See also 47A40.]
P99 None of the above, but in this section
35Qxx Special equations and problems [See also 35J05, 35K05, 35L05]
Q05 Euler-Poisson-Darboux equation and generalizations
Q10 Navier-Stokes equation [See also 76D05.]
Q15 Riemann-Hilbert problems [See also 30A88, 31A25.]
Q99 None of the above, but in this section
35Rxx Miscellaneous topics [For equations on manifolds, see 58Gxx; for manifolds of solutions, see 58Bxx; for stochastic PDE's, see 60H15.]
R05 Equations with discontinuous coefficients or data
R10 Difference-partial differential equations, equations with time lag
R15 Equations on function spaces
R20 Operator equations, general [See also 34G05, 47A50, 47H15.]
R25 Improperly posed problems
R30 Inverse problems (undetermined coefficients, etc.)
R99 None of the above, but in this section
35Sxx Pseudodifferential operators [See also 47G05.]
S05 General theory
S10 Initial value problems
S15 Boundary value problems
S99 None of the above, but in this section

39-XX FINITE DIFFERENCES AND FUNCTIONAL EQUATIONS

—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- A05 Finite differences, general
- A10 Difference equations
- A15 Functional equations, general [For functional-differential equations, see 34Jxx.]
- A20 Classical functional equations
- A25 Linear and multilinear functional equations
- A30 Functional equations in several variables, systems
- A35 Matrix functional equations
- A40 Functional equations on abstract structures

40—XX SEQUENCES, SERIES, SUMMABILITY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

40Axx Convergence and divergence of infinite limiting processes

- A05 Convergence and divergence of series and sequences
- A10 Convergence and divergence of integrals
- A15 Convergence and divergence of continued fractions [See also 30A22.]
- A20 Convergence and divergence of infinite products
- A25 Approximation to limiting values (summation of series, etc.) [For the Euler-Maclaurin summation formula, see 65B15.]
- A99 None of the above, but in this section

40B05 Multiple sequences and series

40Cxx General summability methods

- C05 Matrix methods
- C10 Integral methods
- C15 Function theoretic methods (including power series methods and semicontinuous methods)

- C99 None of the above, but in this section

40Dxx Direct theorems on summability

- D05 General theorems
- D10 Tauberian constants and oscillation limits
- D15 Convergence factors and summability factors
- D20 Summability and bounded fields of methods
- D25 Inclusion and equivalence theorems
- D99 None of the above, but in this section

40E05 Tauberian theorems

40F05 Absolute and strong summability

40Gxx Special methods of summability

- G05 Cesàro, Euler, Nörlund and Hausdorff methods
- G10 Abel, Borel and power series methods
- G99 None of the above, but in this section

40H05 Functional analytic methods in summability

40J05 Summability in abstract structures [See also 43A55.]

41—XX APPROXIMATIONS AND EXPANSIONS [For all approximation theory in the complex domain, see 30A80 and 30A82; for all trigonometric approximation and interpolation, see 42A08, 42A12.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

A05 Interpolation [See also 42A12 and 65D05.]

A10 Approximation by polynomials [For approximation by trigonometric polynomials, see 42A08.]

A15 Spline approximation

A20 Approximation by rational functions

A25 Rate of convergence, degree of approximation

A30 Approximation by other special function classes

A35 Approximation by operators (in particular, by integral operators)

A40 Saturation classes

A45 Approximation by arbitrary linear and nonlinear expressions; widths and entropy

A50 Best approximation (Čebyšev, etc.)

A55 Approximate quadratures

A60 Asymptotic approximations, asymptotic expansions (steepest descent, etc.) [See also 30A84.]

A63 Multidimensional problems

A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

42—XX FOURIER ANALYSIS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

A04 Trigonometric polynomials, inequalities, extremal problems

A08 Approximation by trigonometric polynomials

A12 Trigonometric interpolation

A16 Fourier coefficients, Fourier series of functions with special properties, special Fourier series

A18 Multipliers

A20 Convergence of Fourier and trigonometric series

A24 Summability of trigonometric series

A28 Absolute convergence, absolute summability

- A32 Trigonometric series of special types (positive coefficients, monotonic coefficients, etc.)
- A36 Probabilistic methods in Fourier analysis
- A40 Conjugate functions, conjugate series, singular integrals
- A44 Lacunary series of trigonometric and other functions
- A48 Uniqueness of trigonometric expansions, uniqueness of Fourier expansions, Riemann theory, localization
- A52 Orthogonal functions and polynomials, general theory [See also 33A65.]
- A56 Fourier series in special orthogonal functions (Legendre polynomials, Walsh functions, etc.)
- A60 Series of general orthogonal functions and generalized Fourier expansions
- A62 Uniqueness and localization for orthogonal series
- A64 Completeness of sets of functions
- A68 Fourier transforms
- A72 Fourier-Stieltjes transforms [See also 60E05.]
- A76 Other transforms of Fourier type [See also 44A60.]
- A80 Trigonometric moment problems
- A84 Classical almost periodic functions [See also 43A60.]
- A88 Positive definite functions
- A92 Multiple Fourier series and integrals
- A96 Convolution, factorization

43—XX ABSTRACT HARMONIC ANALYSIS [For other

analysis on topological and Lie groups, see 22Exx.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- A05 Measures on groups and semigroups
- A07 Means on groups and semigroups
- A10 Measure algebras on groups and semigroups
- A15 L_p spaces and other function spaces on groups and semigroups
- A20 L_1 algebras on groups and semigroups
- A22 Homomorphisms and multipliers of function spaces on groups
- A25 Fourier and Fourier-Stieltjes transforms on locally compact abelian groups
- A30 Fourier and Fourier-Stieltjes transforms on non-abelian groups and on semigroups
- A32 Other transforms and operators of Fourier type
- A35 Positive definite functions on groups
- A40 Character groups and dual objects
- A45 Spectral synthesis on groups and semigroups
- A50 Convergence of Fourier series and of inverse transforms
- A55 Summability methods on groups and semigroups
- A60 Almost periodic functions on groups and semigroups

- A65 Representations of groups and semi-groups
- A70 Analysis on specific locally compact abelian groups [See also 12A85.]
- A75 Analysis on specific compact groups
- A80 Analysis on other specific Lie groups
- A85 Analysis on homogeneous spaces
- A90 Spherical functions
- A95 Categorical methods [See also 18—XX.]

44—XX INTEGRAL TRANSFORMS, OPERATIONAL**CALCULUS** [For fractional derivatives and integrals, see 26A33.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 General transforms [See also 42A76.]
- A10 Laplace transform
- A15 Special transforms (Legendre, Hilbert, etc.)
- A20 Transforms of special functions
- A25 Singular integrals (Calderón-Zygmund, etc.) [See also 47G05.]
- A30 Multiple transforms
- A35 Convolution
- A40 Calculus of Mikusiński and other similar operational calculi
- A45 Classical operational calculus
- A50 Moment problems [See also 42A80.]

45—XX INTEGRAL EQUATIONS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- 45A05 Linear integral equations
- 45B05 Fredholm integral equations
- 45C05 Eigenvalue problems [See also 34B25, 35Pxx, 47E05.]
- 45D05 Volterra integral equations [See also 34A10.]
- 45Exx Singular integral equations
 - E05 Integral equations with Cauchy type kernels [See also 30A88, 35J15, 44A15, 44A35.]
 - E10 Integral equations of the convolution type (Abel, Picard, Toeplitz and Wiener-Hopf type) [See also 44A15, 44A35, 47B35.]
 - E99 None of the above, but in this section
- 45F05 Systems of linear integral equations
- 45Gxx Nonlinear integral equations [See also 47Hxx.]
 - G05 Singular nonlinear integral equations
 - G99 Other nonlinear integral equations

- 45H05 Miscellaneous special kernels [See also 44A15.]
- 45J05 Integro-ordinary differential equations
- 45K05 Integro-partial differential equations
- 45Lxx Approximation of solutions
 - L05 Theoretical approximation of solutions
 - L10 Numerical approximation of solutions [For numerical analysis, see 65R05.]
- 45Mxx Qualitative behavior
 - M05 Asymptotics
 - M10 Stability theory
 - M99 None of the above, but in this section
- 45N05 Abstract integral equations, integral equations in abstract spaces

- 46—XX FUNCTIONAL ANALYSIS** [For manifolds modelled on topological linear spaces, see 57A20, 58Bxx.]
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
 - 04 Explicit machine computation and programs (not the theory of computation or programming)
 - 46Axx Topological linear spaces
 - A05 Locally convex spaces
 - A07 Barrelled spaces
 - A09 Bornological spaces
 - A10 Locally bounded topological linear spaces
 - A15 Other topological linear spaces
 - A20 Duality theory
 - A25 Reflexivity and semi-reflexivity
 - A30 Open mappings and closed graph theorems and completeness (including B -, B -completeness)
 - A35 Summability and bases
 - A40 Ordered topological linear spaces, vector lattices
 - A45 Sequence spaces (including Köthe spaces)
 - A99 None of the above, but in this section
 - 46Bxx Normed linear spaces and Banach spaces [For function spaces, see 46Exx.]
 - B05 Topology in terms of the norms
 - B10 Duality and reflexivity
 - B15 Summability and bases
 - B99 None of the above, but in this section
 - 46Cxx Inner product spaces, Hilbert spaces [For function spaces, see 46Exx.]
 - C05 Geometry and topology of the spaces
 - C10 Other properties of such spaces
 - 46D05 Spaces with indefinite inner product
 - 46Exx Function spaces [For function algebras, see 46J10.]
 - E05 Lattices of continuous, differentiable or analytic functions
 - E10 Topological linear spaces of continuous, differentiable or analytic functions
 - E15 Banach spaces of continuous, differentiable or analytic functions
 - E20 Hilbert spaces of continuous, differentiable or analytic functions
 - E25 Rings and algebras of continuous, differentiable or analytic functions [For Banach function algebras, see 46J10, 46J15.]

- E30 Spaces of measurable functions, L^p spaces, Orlicz spaces [See also 43A15.]
- E35 Sobolev spaces, embedding theorems, trace theorems, interpolation spaces
- E40 Spaces of vector- and operator-valued functions
- E99 None of the above, but in this section
- 46Fxx Distributions, generalized functions, distribution spaces
 - F05 Topological linear spaces of test functions and distributions
 - F10 Operations with distributions
 - F15 Hyperfunctions, analytic functionals [See also 32A25, 32C35.]
 - F99 None of the above, but in this section
- 46Gxx Measures, integration, derivatives [For integration on infinite-dimensional spaces, see 28A40; for nonlinear functional analysis, see 58—XX, especially 58Cxx.]
 - G05 Derivatives
 - G10 Vector-valued measures and integration
 - G15 Lifting theory
 - G99 None of the above, but in this section
- 46Hxx Topological algebras, normed rings and algebras, Banach algebras [For group algebras, convolution algebras and measure algebras, see 43—XX.]
 - H05 General theory
 - H10 Ideals and subalgebras
 - H15 Representations
 - H20 Structure, classification
 - H25 Normed modules and Banach modules
 - H99 None of the above, but in this section
- 46Jxx Commutative Banach algebras
 - J05 General theory
 - J10 Banach algebras of continuous functions, function algebras
 - J15 Banach algebras of differentiable or analytic functions, H^p -spaces [See also 30A98, 32E25.]
 - J20 Ideals, maximal ideals, boundaries
 - J25 Representations
 - J30 Subalgebras
 - J35 Structure, classification
 - J99 None of the above, but in this section
- 46Kxx Rings and algebras with an involution
 - K05 Ideals, subalgebras
 - K10 Representations
 - K15 Hilbert algebras
 - K99 None of the above, but in this section
- 46Lxx Rings and algebras of operators, with or without involution [For other algebraic systems of operators, see 47Dxx.]
 - L05 C^* -algebras (= B^* -algebras) [See also 22D25.]
 - L10 von Neumann algebras (= rings of operators, W^* -algebras)
 - L15 Nonselfadjoint operator algebras on Hilbert space
 - L20 Operator algebras on Banach and linear topological spaces
 - L25 Dual spaces of operator algebras and topological groups
 - L99 None of the above, but in this section
- 46Mxx Categorical methods [See also 18—XX.]
 - M05 Tensor products
 - M10 Projective and injective objects
 - M15 Functors

- M99 None of the above, but in this section
 46N05 Miscellaneous applications of functional analysis

47-XX OPERATOR THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- 47Axx Single linear operators: general theory**
 A05 Adjoints, conjugates
 A10 Spectrum, resolvent, numerical range
 A15 Invariant subspaces
 A20 Dilations, extensions, compressions
 A25 Spectral sets
 A30 Norms (inequalities, more than one norm, etc.)
 A35 Ergodic theory [See also 28A65.]
 A40 Scattering theory [See also 35J10.]
 A45 Canonical models for contractions and nonselfadjoint operators
 A50 Equations involving linear operators
 A55 Perturbation theory
 A60 Functional calculus
 A65 Structure theory
 A70 Eigenfunction expansions, rigged Hilbert spaces

- 47Bxx Single linear operators: special classes of operators**
 B05 Compact operators, Riesz operators
 B10 Hilbert-Schmidt operators, trace class operators, nuclear operators, etc.
 B15 Hermitian and normal operators (spectral measures, functional calculus, etc.)
 B20 Subnormal operators, hyponormal operators, etc.
 B25 Symmetric and selfadjoint operators (unbounded)
 B30 Fredholm operators
 B35 Toeplitz operators, Wiener-Hopf operators [For other integral operators, see also 47G05.]

- B40 Spectral operators
 B44 Dissipative operators
 B45 Difference operators
 B47 Commutators
 B50 Operators on a space with an indefinite metric
 B55 Operators on ordered spaces
 B99 None of the above, but in this section

- 47Cxx Single linear operators as elements of algebraic systems**
 C05 Operators in algebras
 C10 Operators in *-algebras
 C15 Operators in von Neumann algebras
 C99 None of the above, but in this section

- 47Dxx Algebraic systems of linear operators [For rings and algebras of operators, see 46Kxx, 46Lxx.]**
 D05 Semigroups of operators [For Markov processes, see 60Jxx.]
 D10 Groups of operators
 D15 Linear spaces of operators

- D20 Convex sets and cones of operators
 D99 None of the above, but in this section
47E05 Ordinary differential operators [See also 34B25, 58Fxx.]
47F05 Partial differential operators [See also 35Pxx, 58Gxx.]
47G05 Integral, integro-differential, and pseudodifferential operators [See also 35Sxx, 58Gxx.]
47Hxx Nonlinear operators
 H05 Monotone operators
 H10 Fixed point theorems
 H15 Equations involving nonlinear operators
 H99 None of the above, but in this section

49-XX CALCULUS OF VARIATIONS AND OPTIMAL CONTROL [See also 34H05, 93Exx.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- 49Axx Existence theory for optimal solutions**
 A05 Free problems in one independent variable
 A10 Problems involving ordinary differential equations
 A15 Free problems in two or more independent variables
 A20 Problems involving partial differential equations
 A25 Problems in abstract spaces
 A30 Problems involving functional relations other than differential equations
 A35 Optimal solutions belonging to restricted classes (bang-bang controls, etc.)
 A40 Minimax problems
 A50 Topology of solutions, weak and strong minima, semicontinuity, convexity, orientor fields
 A99 None of the above, but in this section

- 49Bxx Necessary conditions and sufficient conditions for optimality**
 B05 Free problems in one independent variable
 B10 Problems involving ordinary differential equations
 B15 Optimal solutions belonging to restricted classes
 B20 Free problems in two or more independent variables
 B25 Problems involving partial differential equations
 B30 Problems in abstract spaces
 B35 Problems involving functional relations other than differential equations
 B40 Minimax problems
 B50 Sensitivity of optimal solutions in the presence of perturbations
 B99 None of the above, but in this section
49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming
 C05 Free problems and problems involving ordinary differential equations

(1974) AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- C10 Free problems and problems involving partial differential equations
- C15 Problems in abstract spaces or involving functional relations other than differential equations
- C99 None of the above, but in this section
- 49Dxx Methods of successive approximations**
 - D05 Methods based on necessary conditions
 - D10 Methods of steepest descent type
 - D15 Methods of Newton-Raphson, Galerkin and Ritz types
 - D20 Methods of relaxation type
 - D25 Finite difference methods
 - D30 Other methods, not based on necessary conditions (penalty function, etc.)
 - D35 Methods of linear programming type
 - D40 Methods of quadratic programming type
 - D45 Methods of convex programming type
 - D99 None of the above, but in this section
- 49Exx Controllability and geometry of control problems**
 - E05 General dependence on controls
 - E10 Orientor fields (contingency equations)
 - E15 Attainable sets, controllability
 - E20 Interrelations between stability problems and optimization problems
 - E25 Effect of perturbations on controllability
 - E30 Relations between controllability and optimal solutions
 - E99 None of the above, but in this section
- 49Fxx Manifolds**
 - F05 Exterior differential forms, invariant integrals (Cartan theory) [See also 58A15.]
 - F10 Minimal surfaces
 - F15 Morse theory in Hilbert and other spaces [See also 58Exx.]
 - F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 58A25.]
 - F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting
 - F25 Surface area
 - F99 None of the above, but in this section
- 49Gxx Variational methods and eigenvalues**
 - G05 Variational approach to eigenvalues
 - G10 Rayleigh-Ritz methods
 - G15 Weinstein and Aronszajn methods, intermediate problems
 - G20 Linear operators in Hilbert spaces
 - G99 None of the above, but in this section
- 49H05 Variational principles of physics** [See also 70Hxx, 81A09.]

50—XX GEOMETRY [For algebraic geometry, see 14—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

50Axx Foundations

- A05 Euclidean
- A10 Noneuclidean
- A15 Transformation groups
- A20 Algebraic characterizations [See also 06A75, 12K05, 16A76, 16A78, 16A80, 17D05, 17E05, 20N10.]
- A25 Models [See also 02H15.]
- A30 Length, area, volume
- A99 None of the above, but in this section

50Bxx Euclidean geometry (including equiform geometry)

- B05 Constructions
- B10 Metric formulae
- B15 Inequalities
- B20 Geometry of circles
- B25 Euclidean and equiform geometry over fields other than the reals
- B30 Regular figures, division of space [See also 20H15.]
- B35 Other groups generated by reflections
- B99 None of the above, but in this section

50Cxx Other metric geometries

- C05 Elliptic and hyperbolic, general
- C10 Elliptic and hyperbolic inequalities
- C15 Groups generated by elliptic and hyperbolic reflections [See also 20H10.]
- C20 Hyperbolic convexity
- C25 Other metric geometries

50Dxx Geometries of other transformation groups

- D05 Affine geometry, general
- D10 Affine geometry, subgroups (centroaffine, equiaffine)
- D15 Descriptive geometry
- D20 Projective geometry over the reals
- D25 Projective geometry over other infinite fields
- D30 Projective geometry over finite fields
- D35 Projective geometry over combinatorial or nonfield structures
- D40 Line geometry
- D45 Circle and sphere geometry: Lie, Laguerre, Möbius
- D50 Geometries of other space elements
- D99 None of the above, but in this section

52—XX CONVEX SETS AND GEOMETRIC INEQUALITIES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Convex sets without dimension restrictions
- A10 Convex sets in 2 dimensions
- A15 Convex sets in 3 dimensions
- A20 Convex sets in n dimensions
- A25 Convex polyhedra
- A30 Star-shaped sets
- A35 Helly-type theorems
- A40 Inequalities and extremum problems
- A45 Packing and covering [See also 05B40, 10E30, 50B30.]

- A50 Hilbert geometry and other distance geometries
 A55 Spherical convexity [See also 50C20.]

53—XX DIFFERENTIAL GEOMETRY { For differential topology, see 57Dxx. For foundational questions of differentiable manifolds, see 58Axx. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)

53Axx Classical differential geometry

- A05 Curves and surfaces in euclidean space
 A10 Minimal surfaces
 A15 Affine differential geometry
 A20 Projective differential geometry
 A25 Differential line geometry
 A30 Conformal differential geometry
 A35 Noneuclidean differential geometry
 A40 Other special differential geometries
 A45 Vector and tensor analysis
 A50 Spinor analysis
 A55 Differential invariants (local theory), geometric objects
 A99 None of the above, but in this section

53Bxx Local differential geometry

- B05 Affine connections
 B10 Projective connections
 B15 Other connections
 B20 Local Riemannian geometry
 B25 Submanifolds
 B30 Lorentz metrics, indefinite metrics
 B35 Hermitian and Kählerian structures [See also 32Cxx.]
 B40 Finsler spaces and generalizations (areal metrics)
 B99 None of the above, but in this section

53Cxx Global differential geometry { For related bundle theory, see 55Fxx, 57Dxx. }

- C05 Connections
 C10 G -structures
 C15 Almost complex, contact, symplectic, almost product structures, etc.
 C20 Riemannian manifolds, including pinching [See also 58B20.]
 C25 Special Riemannian manifolds (Einstein, Sasakian, etc.)
 C30 Homogeneous manifolds [See also 57F15.]
 C35 Symmetric spaces [See also 57F15.]
 C40 Submanifolds, isometric imbeddings [See also 57D40.]
 C45 Global surface theory (convex surfaces à la A. D. Aleksandrov)
 C50 Lorentz manifolds, manifolds with indefinite metrics
 C55 Hermitian and Kählerian structures [See also 32Cxx.]
 C60 Finsler spaces and generalizations (areal metrics) [See also 58B20.]
 C65 Integral geometry, differential forms, currents, etc.

- C70 Direct methods (G -spaces of Busemann, etc.)
 C75 Geometric orders, order geometry
 C99 None of the above, but in this section

54—XX GENERAL TOPOLOGY { For the topology of manifolds of all dimensions, see 57Axx. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 —01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)

54Axx Generalities

- A05 Topological spaces and generalizations (closure spaces, etc.)
 A10 Change of topology, comparison of topologies
 A15 Syntopogeneous structures
 A20 Convergence (general theory) and limits
 A25 Cardinality properties (discrete subsets, weight, etc.)
 A99 None of the above, but in this section

54Bxx Basic constructions

- B05 Subspaces
 B10 Product spaces
 B15 Quotient spaces, decompositions
 B17 Adjunction spaces and similar constructions
 B20 Hyperspaces
 B25 Sums, inverse limits
 B99 None of the above, but in this section

54Cxx Maps and general types of spaces defined by maps

- C05 Continuous maps
 C10 Special maps: open, closed, perfect, almost open, light, etc.
 C15 Retraction
 C20 Extension
 C25 Imbedding
 C30 Real-valued functions [See also 26—XX.]
 C35 Function spaces [See also 58D15.]
 C40 $C(X)$; algebraic techniques (ideals, etc.) [See also 46J10.]
 C45 C - and C^* -imbedding
 C50 Zero sets, Baire sets and functions [See also 26A21.]
 C55 Absolute neighborhood extensor, absolute extensor, absolute neighborhood retract (ANR), absolute retract spaces (general properties)
 C60 Set-valued maps
 C65 Selections
 C99 None of the above, but in this section

54Dxx Fairly general properties

- D05 Connected and locally connected spaces (general aspects)
 D10 Separation axioms, $T_0 - T_3$
 D15 Higher separation axioms (completely regular, normal, perfectly or collection-wise normal, etc.)
 D20 Covering properties: Lindelöf, (m, n) -compact, paracompact, pointwise paracompact, etc.

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- D25 "P-minimal" and "P-closed" spaces
- D30 Compact spaces and generalizations
- D35 Compactifications, etc.
- D40 Remainders
- D45 Local compactness, σ -compactness
- D50 k -spaces
- D55 Sequential spaces
- D60 Realcompactness and realcompactification
- D99 None of the above, but in this section
- 54Exx Spaces with richer structures**
 - E05 Proximity structures and generalizations
 - E10 p -maps
 - E15 Uniform structures and generalizations
 - E20 Stratifiable spaces, cosmic spaces, etc.
 - E25 Semimetric spaces
 - E30 Moore spaces
 - E35 Metric spaces, metrizability
 - E40 Isometries, contractions, expansions
 - E45 Compact (locally compact) metric spaces
 - E50 Complete metric spaces
 - E55 Bitopologies
 - E60 CW-complexes, triangulable spaces
 - E99 None of the above, but in this section
- 54Fxx Special properties**
 - F05 Ordered topological spaces, partially ordered spaces [See also 06A45.]
 - F15 Continua and generalizations
 - F20 Special types of continua
 - F25 Peano spaces and generalizations
 - F30 Cyclic elements
 - F35 Higher dimensional local connectedness [See also 55Bxx, 55Cxx.]
 - F40 Compact (locally compact) absolute neighborhood retracts
 - F45 Dimension theory [See also 55C10.]
 - F50 Spaces of dimension ≤ 1 ; curves, dendrites [See also 26A03.]
 - F55 Unicoherence, multicoherence
 - F60 Maps into S_n
 - F65 Topological characterizations of particular spaces
 - F99 None of the above, but in this section
- 54Gxx Peculiar spaces**
 - G05 Extremely disconnected spaces, F -spaces, etc.
 - G10 P -spaces
 - G15 Pathological spaces
 - G20 Counterexamples
 - G99 None of the above, but in this section
- 54Hxx Connections with other structures, applications**
 - H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 04A15, 26A21, 28A05.]
 - H10 Topological representations of algebraic systems [See also 22—XX.]
 - H15 Transformation groups and semigroups [See also 20Mxx, 22—XX, 57Exx.]
 - H20 Topological dynamics [See also 28A65, 34C35, 58Fxx.]
 - H25 Fixed-point and coincidence theorems [See also 47H10, 55C20.]
 - H99 None of the above, but in this section
- 54J05 Nonstandard topology**

55—XX ALGEBRAIC TOPOLOGY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 55Axx Low-dimensional topology (See also 57Axx.)**
 - A05 Fundamental group, presentations, free differential calculus [See also 20E40.]
 - A10 Covering spaces, branched coverings
 - A15 Graphs and map coloring [For other graph theory, see 05Cxx.]
 - A20 Two-dimensional complexes
 - A25 Knots and links [For the high-dimensional case, see 57C45.]
 - A30 Wild knots and surfaces, etc.
 - A35 Dehn's Lemma, sphere theorem, loop theorem, asphericity
 - A40 Characterizations of E^3 and S^3 (Poincaré conjecture)
 - A99 None of the above, but in this section
- 55Bxx Homology and cohomology theories**
 - B05 Čech types
 - B10 Singular theory
 - B15 K -theory [For algebraic K -theory, see 18F25.]
 - B20 Generalized (extraordinary) homology and cohomology theories, spectra
 - B25 Homology with local coefficients, equivariant cohomology
 - B30 Sheaf cohomology [See also 18F20, 32C35, 32L10.]
 - B35 Other homology theories
 - B40 Axioms for homology theory and uniqueness theorems
 - B45 Products and intersections
 - B99 None of the above, but in this section
- 55Cxx Classical topics (For the topology of Euclidean spaces and manifolds, see 57A05, 57A10, 57A15.)**
 - C05 Duality
 - C10 Dimension theory [See also 54F45.]
 - C15 Absolute neighborhood retracts [See also 54C55.]
 - C20 Fixed points and coincidences [See also 54H25.]
 - C25 Degree
 - C30 Ljusternik-Schnirelman category of a space
 - C35 Finite groups of transformations (Smith theory)
 - C99 None of the above, but in this section
- 55Dxx Homotopy theory (For simple homotopy type, see 57C10.)**
 - D05 Homotopy extension properties, cofibrations
 - D10 Homotopy equivalences
 - D15 Classification of homotopy type
 - D20 Eilenberg-MacLane spaces
 - D25 Spanier-Whitehead duality
 - D30 Eckmann-Hilton duality
 - D35 Loop spaces
 - D40 Suspensions
 - D45 H -spaces and duals
 - D50 Category and cocategory, etc.
 - D99 None of the above, but in this section
- 55Exx Homotopy groups**
 - E05 Homotopy groups, general; sets of homotopy classes

- E10 Stable homotopy groups
 E15 Whitehead products and generalizations
 E20 Homotopy groups of wedges, joins, and simple spaces
 E25 Hopf invariants
 E30 Homotopy groups of triads, n -ads
 E35 Operations in homotopy groups
 E40 Homotopy groups of spheres
 E45 Stable homotopy of spheres
 E50 The J -morphism
 E55 Cohomotopy groups
 E99 None of the above, but in this section
- 55Fxx Fiber spaces and bundles [See also 18F15.]**
 F05 Fiber spaces
 F10 Fiber bundles
 F15 Classification
 F20 Spectral sequences and homology of fiber spaces [See also 55Hxx.]
 F25 Sphere bundles and vector space bundles
 F35 Classifying spaces of groups and H -spaces
 F40 Homology of classifying spaces, characteristic classes
 F45 Homology and homotopy of BO and BU ; Bott periodicity
 F50 Stable classes of vector space bundles, K -theory [For algebraic K -theory, see 18F25.]
 F55 Fiberings with singularities
 F60 Microbundles and block bundles
 F65 Generalizations of fiber spaces and bundles
 F99 None of the above, but in this section
- 55Gxx Operations and obstructions**
 G05 Primary cohomology operations
 G10 Steenrod algebra
 G15 Symmetric products, cyclic products
 G20 Secondary and higher cohomology operations
 G25 K -theory operations and generalized cohomology operations
 G30 Massey products
 G35 Obstruction theory
 G36 Extension and compression of mappings
 G37 Classification of mappings
 G40 Sectioning fiber spaces and bundles
 G45 Postnikov systems, k -invariants
 G99 None of the above, but in this section
- 55Hxx Spectral sequences**
 H05 General
 H10 Serre spectral sequences
 H15 Adams spectral sequences
 H20 Eilenberg-Moore spectral sequences
 H25 Generalized cohomology
 H99 None of the above, but in this section
- 55Jxx Applied homological algebra [See also 18Gxx.]**
 J05 Abstract complexes
 J10 Semisimplicial complexes
 J15 Chain complexes
 J20 Universal coefficient theorems, Bockstein operator
 J25 Homology of a product, Künneth formula
 J30 Duality
 J99 None of the above, but in this section
- 57—XX MANIFOLDS AND CELL COMPLEXES [For complex manifolds, see 32C10.]**
 —00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
 —02 Advanced exposition (research surveys, etc.)
 —03 Historical
 —04 Explicit machine computation and programs (not the theory of computation or programming)
- 57Axx Topological manifolds**
 A05 Topology of E_2 , 2-manifolds
 A10 Topology of E_3 , 3-manifolds [See also 55Axx.]
 A15 Topology of E_n , n -manifolds ($3 < n < \infty$)
 A17 Topology of topological vector spaces
 A20 Topology of infinite-dimensional manifolds [See also 58Bxx.]
 A30 Engulfing
 A35 Imbeddings and immersions
 A40 Neighborhoods of submanifolds
 A45 Flatness
 A50 $S^{n-1} \subset E^n$, Schoenflies problem
 A55 Microbundles
 A60 Cellularity
 A65 Algebraic topology of manifolds
 A70 Cobordism
 A99 None of the above, but in this section
- 57Bxx Generalized manifolds [See also 18F15.]**
 B05 Local properties
 B10 Poincaré duality spaces
 B99 None of the above, but in this section
- 57Cxx PL-topology**
 C05 The general topology of complexes
 C10 Simple homotopy type, Whitehead torsion, Reidemeister-Franz torsion, etc.
 C15 Triangulating manifolds
 C20 Cobordism
 C25 Comparison of PL-structures: classification, Hauptvermutung
 C30 Engulfing
 C35 Imbeddings and immersions
 C40 Regular neighborhoods
 C45 Knots and links (in high dimensions) [For the low-dimensional case, see 55A25.]
 C50 Microbundles and block bundles [See also 55F60.]
 C55 Approximations
 C99 None of the above, but in this section
- 57Dxx Differential topology [For foundational questions of differentiable manifolds, see 58Axx; for infinite dimensional manifolds, see 58Bxx.]**
 D05 Triangulating
 D10 Smoothing
 D12 Smooth approximations
 D15 Specialized structures on manifolds (spin manifolds, frame manifolds, etc.)
 D20 Characteristic classes
 D25 Vector fields, frame fields, etc.
 D30 Foliations
 D35 Differentiable mappings
 D40 Imbeddings and immersions
 D45 Singularities of differentiable mappings
 D50 Diffeomorphisms
 D55 Differentiable structures
 D60 Homotopy spheres, Poincaré conjecture
 D65 Surgery and handlebodies
 D70 Critical points and critical submanifolds
 D75 O - and SO -cobordism
 D80 h - and s -cobordism
 D85 Equivariant cobordism
 D90 Other types of cobordism

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- D95 Realizing cycles by submanifolds
- D99 None of the above, but in this section
- 57Exx** **Topological transformation groups** [See also 20E40, 22—XX, 54H15, 58D05.]
 - E05 Topological properties of groups of homeomorphisms
 - E10 Compact groups of homeomorphisms
 - E15 Compact Lie groups of differentiable transformations
 - E20 Noncompact Lie groups of transformations
 - E25 Groups acting on specific manifolds
 - E30 Discontinuous groups of transformations
 - E99 None of the above, but in this section
- 57Fxx** **Homology and homotopy of topological groups and related structures**
 - F05 Hopf algebras [See also 16A24.]
 - F10 Homology of Lie groups
 - F15 Homology of homogeneous spaces of Lie groups
 - F20 Homotopy groups of topological groups and homogeneous spaces
 - F25 Homology of H -spaces
 - F30 Bar and cobar constructions
 - F35 Applications of Eilenberg-Moore spectral sequences [See also 55F20, 55H20.]
 - F99 None of the above, but in this section

58—XX GLOBAL ANALYSIS, ANALYSIS ON MANIFOLDS

[For real-analytic and complex manifolds, see 32Cxx; for geometric integration theory, see 49F20, 49F22.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

- 58Axx** **General theory of differentiable manifolds**
 - A05 Differentiable manifolds, foundations
 - A10 Differential forms
 - A15 Exterior differential systems (Cartan theory) [For variational problems, see 49F05.]
 - A20 Jets
 - A25 Currents
 - A30 Vector distributions (sub-bundles of the tangent bundles)
 - A99 None of the above, but in this section
- 58Bxx** **Infinite dimensional manifolds** [See also 57A20.]
 - B05 Homotopy and topological questions
 - B10 Differentiable and holomorphic questions
 - B15 Fredholm structures
 - B20 Riemannian, Finsler, and other geometric structures
 - B99 None of the above, but in this section
- 58Cxx** **Calculus on manifolds**
 - C05 Real-valued functions
 - C10 Holomorphic maps
 - C15 Implicit function theorems
 - C20 Differentiation theory (Gâteaux, Fréchet, etc.)

- C25 Differentiable maps and singularities
- C99 None of the above, but in this section
- 58Dxx** **Spaces and manifolds of mappings**
 - D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22Exx, 57E05.]
 - D10 Spaces of imbeddings and immersions
 - D15 Manifolds of mappings [See also 54C35.]
 - D99 None of the above, but in this section
- 58Exx** **Critical point theory** [For the finite dimensional case, see 57D70; for variational problems, see 49F15.]
 - E05 Abstract theory (Morse theory, Ljusternik-Schnirelman theory, etc.)
 - E10 Application to theory of geodesics
 - E15 Application to extremal problems in several variables
 - E99 None of the above, but in this section
- 58Fxx** **Differentiable dynamical systems** [For abstract and symbolical topological dynamics, see 28A65, 34C35, 54H20.]
 - F05 Hamiltonian and other special systems
 - F10 Stability theory
 - F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)
 - F20 Periodic points and zeta functions
 - F99 None of the above, but in this section
- 58Gxx** **Differential operators on manifolds**
 - G05 Elliptic complexes [See also 35N15.]
 - G10 Index theorems and fixed point theorems
 - G15 Pseudodifferential operators on manifolds
 - G99 None of the above, but in this section
- 58H05** **Pseudogroups (infinite dimensional Lie groups) and deformations of structures** [See also 22E65.]

60—XX PROBABILITY THEORY AND STOCHASTIC

PROCESSES [For additional applications, see 10Kxx, 42A36, 62—XX, 90—XX, 92—XX, 93—XX, 94—XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 60A05** **Axioms, foundations**
- 60Bxx** **Probability theory on algebraic and topological structures**
 - B05 Probability measures on topological spaces
 - B10 Convergence of probability measures, invariance theorems [See also 28A65.]
 - B15 Probability measures on groups, Fourier transforms, factorization
 - B99 None of the above, but in this section
- 60C05** **Combinatorial probability**
- 60D05** **Geometric probability**
- 60E05** **Distributions, characteristic functions**
- 60Fxx** **Limit theorems**
 - F05 Central limit and other weak theorems
 - F10 Large deviations
 - F15 Strong theorems [See also 28A65.]

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- F20 Zero-one laws
F99 None of the above, but in this section
- 60Gxx Stochastic processes**
G05 Foundations of stochastic processes
G10 Stationary processes
G15 Gaussian processes
G17 Sample path properties
G20 Generalized stochastic processes
G25 Prediction theory [See also 62M10.]
G30 Continuity and singularity of induced measures
G35 Applications (signal detection, filtering, etc.) [See also 94A05.]
G40 Stopping times
G45 Martingale theory
G50 Sums of independent random variables
G99 None of the above, but in this section
- 60Hxx Stochastic analysis**
H05 Stochastic integrals
H10 Stochastic ordinary differential equations [See also 34F05.]
H15 Stochastic partial differential equations
H20 Stochastic integral equations
H99 None of the above, but in this section
- 60Jxx Markov processes**
J05 Markov processes with discrete parameter
J10 Markov chains
J15 Random walk
J20 Applications of discrete Markov processes (social mobility, learning theory, industrial processes, etc.)
J25 Markov processes with continuous parameter
J30 Processes with independent increments
J35 Transition functions, generators and resolvents [See also 47D05.]
J40 Hunt processes
J45 Probabilistic potential theory [See also 31-XX.]
J50 Boundary theory
J55 Local time and additive functionals
J60 Diffusion processes [See also 28A65.]
J65 Brownian motion
J70 Applications of diffusion theory (population genetics, absorption problems, etc.)
J75 Jump processes
J80 Branching processes (Galton-Watson, birth-and-death, etc.)
J85 Applications of branching processes [See also 90Bxx.]
J99 None of the above, but in this section
- 60Kxx Special processes**
K05 Renewal theory
K10 Applications (reliability, demand theory, etc.)
K15 Markov renewal processes, semi-Markov processes
K20 Applications of Markov renewal processes (reliability, queueing networks, etc.)
K25 Queueing theory
K30 Applications (congestion, allocation, storage, traffic, etc.) [See also 60J80.]
K35 Interacting random processes, statistical mechanics type models
K99 None of the above, but in this section

62-XX STATISTICS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
- 62Axx Foundations**
A05 Invariance and group considerations
A10 The likelihood approach
A15 The Bayesian approach
A99 None of the above, but in this section
- 62Bxx Sufficiency**
B05 Sufficient statistics and fields
B10 Statistical information theory
B15 Comparison of experiments
B20 Measure-theoretic results, etc.
B99 None of the above, but in this section
- 62Cxx Decision theory { For game theory, see 90Dxx. }**
C05 General considerations
C07 Complete class results
C10 Bayesian problems; characterization of Bayes procedures
C15 Admissibility
C25 Compound decision problems
C99 None of the above, but in this section
- 62D05 Sampling theory, sample surveys**
- 62Exx Distribution theory**
E10 Characterization and structure theory
E15 Distribution of statistics
E20 Asymptotic theory
E25 Monte Carlo studies
E99 None of the above, but in this section
- 62Fxx Parametric inference**
F05 Hypothesis testing
F07 Ranking and selection
F10 Estimation
F15 Bayesian inference
F20 Asymptotic efficiency
F25 Tolerance and confidence regions
F99 None of the above, but in this section
- 62Gxx Nonparametric inference**
G05 Estimation
G10 Hypothesis testing
G15 Tolerance and confidence regions
G20 Asymptotic efficiency
G25 Quick and easy methods
G30 Order statistics
G35 Robustness
G99 None of the above, but in this section
- 62Hxx Multivariate analysis**
H05 Characterization and structure theory
H10 Distribution of statistics
H15 Hypothesis testing
H20 Correlation analysis, canonical correlation
H25 Factor analysis and principal components
H30 Classification and discrimination
H99 None of the above, but in this section
- 62Jxx Linear inference**
J05 Regression analysis
J10 Analysis of variance and covariance
J15 Paired and multiple comparisons
J99 None of the above, but in this section

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 62Kxx** Experimental design [See also 05Bxx.]
 - K05 Optimal designs
 - K10 Block designs
 - K15 Factorial designs
 - K99 None of the above, but in this section
- 62Lxx** Sequential methods
 - L05 Sequential design
 - L10 Sequential analysis
 - L12 Sequential estimation
 - L15 Optimal stopping [See also 60G40.]
 - L20 Stochastic approximation
 - L99 None of the above, but in this section
- 62Mxx** Inference from stochastic processes
 - M05 Markov processes
 - M10 Time series, auto-correlation, regression, etc.
 - M15 Spectral analysis of time series
 - M20 Prediction [See also 60G25.]
 - M99 None of the above, but in this section
- 62Nxx** Engineering statistics
 - N05 Reliability and life testing
 - N10 Quality control [See also 90Bxx.]
 - N15 Stochastic differential and difference equations [See also 34F05, 60H10, 93Exx.]
 - N99 None of the above, but in this section
- 62Pxx** Applications [See also 82—XX, 90—XX, 92—XX.]
 - P05 Actuarial mathematics
 - P10 Biometrics
 - P15 Psychometrics
 - P20 Econometrics
 - P25 Sociometrics
 - P99 None of the above, but in this section
- 62Q05** Statistical tables

65—XX NUMERICAL ANALYSIS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 65A05** Tables
- 65Bxx** Acceleration of convergence
 - B05 Extrapolation to the limit, deferred corrections
 - B10 Summation of series
 - B15 Euler-MacLaurin formula
 - B20 Poisson formula, etc.
 - B99 None of the above, but in this section
- 65Cxx** Numerical simulation [See also 68A55.]
 - C05 Monte Carlo methods
 - C10 Random number generation
 - C99 None of the above, but in this section
- 65Dxx** Numerical approximation [Primarily algorithms; for theory, see 41—XX.]
 - D05 Interpolation
 - D10 Smoothing, curve fitting
 - D15 Algorithms for functional approximation
 - D20 Computation of special functions, construction of tables
 - D25 Numerical differentiation
 - D30 Numerical integration, quadrature, cubature, etc.
 - D99 None of the above, but in this section

- 65E05** Numerical methods in complex analysis (potential theory, etc.) [For numerical methods in conformal mapping, see 30A28.]
- 65Fxx** Numerical linear algebra
 - F05 Direct methods for linear systems and matrix inversion
 - F10 Iterative methods for linear systems [See also 65N20.]
 - F15 Eigenvalues, eigenvectors
 - F20 Overdetermined systems, pseudoinverses
 - F25 Orthogonalization
 - F30 Other matrix algorithms
 - F35 Matrix norms, conditioning, scaling [See also 15A12, 15A60.]
 - F99 None of the above, but in this section
- 65G05** Roundoff error
- 65Hxx** Nonlinear algebraic or transcendental equations
 - H05 Single equations
 - H10 Systems of equations
- 65J05** Numerical analysis in abstract spaces
- 65K05** Mathematical programming and optimization techniques [Computational aspects; for algorithms and theory, see 49Exx and 90Cxx.]
- 65Lxx** Ordinary differential equations
 - L05 Initial value problems
 - L10 Boundary value problems
 - L15 Eigenvalue problems
 - L99 None of the above, but in this section
- 65Mxx** Partial differential equations, initial value problems
 - M05 Derivation of finite difference approximations
 - M10 Stability and convergence of difference methods
 - M15 Error bounds
 - M20 Method of lines
 - M25 Method of characteristics
 - M30 Improperly posed problems
 - M99 None of the above, but in this section
- 65Nxx** Partial differential equations, boundary value problems
 - N05 Derivation of finite difference approximations
 - N10 Convergence of difference methods
 - N15 Error bounds
 - N20 Solution of difference equations [See also 65F10.]
 - N25 Eigenvalue problems
 - N30 Rayleigh-Ritz and Galerkin methods
 - N35 Collocation and related methods
 - N99 None of the above, but in this section
- 65P05** Partial differential equations, miscellaneous problems
- 65Q05** Difference and functional equations, recurrence relations
- 65R05** Integral and integro-differential equations
- 65S05** Graphical methods
- 65T05** Harmonic analysis and synthesis

68—XX COMPUTER SCIENCE [For papers involving machine computations and programs in a specific mathematical area, see section —04 in that area.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 03 Historical
- A05 Programming theory
- A10 Algorithms [See also 02E10.]
- A15 Symbolic computation
- A20 Computational complexity and efficiency
- A25 Automata theory [See also 02F10, 18B20, 94A30, 94A35.]
- A30 Linguistics, formal languages
- A35 Adaptive systems
- A40 Theorem proving
- A45 Artificial intelligence, pattern recognition
- A50 Information retrieval
- A55 Simulation [See also 65Cxx.]

70—XX MECHANICS OF PARTICLES AND SYSTEMS

{ For relativistic mechanics, see 83A05 and 83C10; for statistical mechanics, see 82—XX. }

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 70A05 Axiomatics
- 70Bxx Kinematics
 - B05 Kinematics of a particle
 - B10 Kinematics of a rigid body
 - B15 Mechanisms and linkages
 - B99 None of the above, but in this section
- 70Cxx Statics
 - C05 Forces, fields
 - C10 Potential energy
 - C99 None of the above, but in this section
- 70Dxx Dynamics of a particle { See also 70Hxx. }
 - D05 Newtonian dynamics
 - D10 Lagrangian dynamics
 - D99 None of the above, but in this section
- 70Exx Dynamics of a rigid body
 - E05 Motion of the gyroscope
 - E10 Motion of projectiles and rockets
 - E15 Motion of a general rigid body
 - E20 Perturbation methods for Euler's equations
 - E25 Poincaré method
 - E99 None of the above, but in this section
- 70Fxx Dynamics of a system of particles
 - F05 Two-body problem
 - F10 *n*-body problem
 - F15 Celestial mechanics
 - F20 Holonomic systems
 - F25 Nonholonomic systems
 - F30 Impulsive motion
 - F35 Collisions
 - F99 None of the above, but in this section
- 70Gxx General representation of dynamical systems
 - G05 Riemannian geometry, tensorial methods [See also 53A45, 53A50, 53B20.]
 - G10 Generalized coordinates
 - G15 Space of events
 - G20 Impulse-energy space
 - G25 Configuration space
 - G30 State space
 - G35 Phase space

- G99 None of the above, but in this section
- 70Hxx Hamiltonian mechanics
 - H05 Hamilton's equations
 - H10 Liouville's theorem
 - H15 Canonical transformations
 - H20 Hamilton-Jacobi equations
 - H25 Variational methods
 - H99 None of the above, but in this section
- 70Jxx Linear vibration theory
 - J05 Finite degree of freedom systems
 - J10 Normal modes of vibrations
 - J15 Conservative systems
 - J20 Nonconservative systems
 - J25 Stability of oscillatory motions
 - J99 None of the above, but in this section
- 70Kxx Nonlinear oscillations
 - K05 Phase plane analysis
 - K10 Limit cycles
 - K15 Liapunov theorems
 - K20 Stability
 - K99 None of the above, but in this section
- 70L05 Random vibrations { See also 93Exx. }
- 70Mxx Orbital mechanics
 - M05 Satellite problems
 - M10 Orbital stability
 - M99 None of the above, but in this section
- 70N05 Exterior ballistics
- 70P05 Variable mass, rockets

73—XX MECHANICS OF SOLIDS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- 73A05 Axiomatics
- 73Bxx Continuum mechanics { For fluids, see 76Axx. }
 - B05 Constitutive equations
 - B10 Isotropic functionals
 - B15 Rotational groups [See also 22Exx.]
 - B20 Simple materials
 - B25 Multipolar stress theory
 - B30 Thermodynamics of solids [For gases and fluids, see 80—XX.]
 - B99 None of the above, but in this section
- 73Cxx Linear elasticity { For the biharmonic equation, see 31B30; for acoustics, see 76Q05. }
 - C05 Stress functions
 - C10 Saint-Venant's principle
 - C15 Uniqueness theorems
 - C20 Strain energy methods
 - C25 Thermal stress problems
 - C30 Anisotropic bodies
 - C35 Mixed boundary value problems [See also 45F05.]
 - C99 None of the above, but in this section
- 73Dxx Wave propagation in solids
 - D05 Impact and explosion problems [See also 76L05.]
 - D10 Integral transforms
 - D15 Dilatational and shear waves
 - D20 Surface waves

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- D25 Wave diffraction and dispersion
D99 None of the above, but in this section
- 73Exx** **Plasticity**
E05 Yield criteria and flow rules
E10 Method of successive approximations
E15 Slip-line theory
E20 Limit analysis
E25 Creep
E99 None of the above, but in this section
- 73Fxx** **Viscoelasticity**
F05 Creep and relaxation functions
F10 Correspondence principle
F15 Time dependent boundary value problems
F20 Aging of materials
F25 Environmental-dependent materials
F99 None of the above, but in this section
- 73Gxx** **Finite deformations**
G05 Finite elasticity
G10 Strain energy functions
G15 Finite viscoelasticity
G20 Metal forming problems
G99 None of the above, but in this section
- 73Hxx** **Elastic stability**
H05 Buckling
H10 Dynamic stability
H99 None of the above, but in this section
- 73Jxx** **Aeroelasticity**
J05 Interaction of aerodynamics and elasticity
J10 Vibrations, flutter
J15 Divergence
J99 None of the above, but in this section
- 73Kxx** **Structural mechanics**
K05 Beams, columns
K10 Plates
K15 Membranes, shells
K20 Composite structures
K25 Finite element methods
K99 None of the above, but in this section
- 73Lxx** **Theory of shells**
L05 Non-euclidean geometry, tensorial methods [See also 53A45.]
L10 Anisotropic shells
L15 Shell dynamics
L99 None of the above, but in this section
- 73Mxx** **Fractural mechanics**
M05 Brittle fracture, cracks
M10 Fatigue
M15 Ductile fracture
M20 Material instability
M99 None of the above, but in this section
- 73Nxx** **Geophysical solid mechanics** [See also 86—XX.]
N05 Global dynamics
N10 Earthquake problems
N99 None of the above, but in this section
- 73Pxx** **Biomechanics of solids**
P05 Mathematical models of biological materials
P10 Mechanics response
P99 None of the above, but in this section
- 73Q05** **Soil mechanics**
73R05 **Electromagnetic elasticity**
73Sxx **Micromechanics of solids**
S05 Dislocation theory
S99 Other micromechanics

- 76—XX** **FLUID MECHANICS** [For general continuum mechanics, see 73Bxx.]
—00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
—01 Elementary exposition (collegiate level)
—02 Advanced exposition (research surveys, etc.)
—03 Historical
—04 Explicit machine computation and programs (not the theory of computation or programming)
- 76Axx** **Constitutive equations** [See also 35L65.]
A05 Non-Newtonian fluids
A10 Viscoelastic fluids
A99 None of the above, but in this section
- 76Bxx** **Incompressible, inviscid fluids, potential theory**
B05 Airfoil theory
B10 Jets and cavities, free-streamline theory, water-entry problems, hydrofoil theory
B15 Water waves, gravity waves; dispersion and diffraction, nonlinear interaction
B20 Ship waves
B25 Solitary and cnoidal waves
B99 None of the above, but in this section
- 76Cxx** **Incompressible inviscid fluids, vorticity flows**
C05 Vorticity flows
C10 Internal waves
C15 Atmospheric waves
C20 Rossby waves
C99 None of the above, but in this section
- 76Dxx** **Incompressible viscous fluids**
D05 Navier-Stokes equations [See also 35Q10.]
D10 Boundary-layer theory
D15 Boundary-layer separation and re-attachment
D20 Higher-order effects in boundary layers
D25 Wakes and jets
D30 Singular perturbation problems
D99 None of the above, but in this section
- 76Exx** **Hydrodynamic stability**
E05 Stability of parallel flows
E10 Inertial instability
E15 Convective instability
E20 Instability of geophysical and astrophysical flows
E25 Magnetohydrodynamic and electrohydrodynamic instabilities
E30 Nonlinear effects
E99 None of the above, but in this section
- 76F05** **Turbulence** [See also 60Gxx, 60Jxx.]
- 76Gxx** **Subsonic flows**
G05 Hodograph methods
G10 Kármán-Tsien approximation
G15 Iterative methods
G20 Free-streamline theory
G99 None of the above, but in this section
- 76H05** **Transonic flows, limit lines**
- 76Jxx** **Supersonic flows**
J05 Hodograph methods
J10 Method of characteristics
J99 None of the above, but in this section
- 76K05** **Hypersonic flows**
- 76L05** **Shock waves and blast waves** [See also 73D05.]
- 76M05** **Nonhomentropic flows of compressible fluids**

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 76N05 Boundary-layer theory of compressible fluids
- 76P05 Rarefied gas flows, Boltzmann equation [See also 82A05.]
- 76Q05 Hydrodynamic sound, acoustics
- 76Rxx Diffusion and convection [See also 60J60.]
 - R05 Forced convection
 - R10 Free convection
 - R99 None of the above, but in this section
- 76S05 Flows in porous media
- 76T05 Two-phase and multiphase flows
- 76U05 Rotating fluids
- 76V05 Stratified fluids
- 76W05 Magnetohydrodynamics and electrohydrodynamics
- 76X05 Ionized gas flow in electromagnetic fields
- 76Y05 Quantum hydrodynamics and relativistic hydrodynamics [See also 83C55, 85A30.]
- 76Zxx Biological fluid mechanics
 - Z05 Physiological flows
 - Z10 Biopropulsion in water and in air
 - Z99 None of the above, but in this section

78—XX OPTICS, ELECTROMAGNETIC THEORY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Geometric optics
- A10 Physical optics
- A15 Electron optics
- A20 Space charge waves
- A25 Electromagnetic theory
- A30 Electro- and magnetostatics
- A35 Motion of charged particles
- A40 Waves and radiation
- A45 Diffraction, scattering [For WKB methods, see also 34E20.]
- A50 Antennas, wave-guides
- A55 Technical applications
- A57 Mathematically heuristic optics and electromagnetic theory (must also be assigned at least one other classification number in this section)

80—XX CLASSICAL THERMODYNAMICS, HEAT TRANSFER

- [For thermodynamics of solids, see 73B30.]
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Foundations
- A10 Classical thermodynamics
- A15 Thermodynamics of mixtures
- A20 Heat and mass transfer

- A25 Combustion, interior ballistics
- A30 Chemical kinetics
- A35 Mathematically heuristic classical thermodynamics (must also be assigned at least one other classification number in this section)

81—XX QUANTUM MECHANICS

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A06 Relativistic theory
- A09 Selfadjoint operator theory in quantum mechanics, essential selfadjointness of the Hamiltonian
- A10 Perturbation theory
- A12 Logical foundations of quantum mechanics
- A15 Feynman integrals and graphs, applications of algebraic topology and algebraic geometry to these problems
- A17 Axiomatic quantum field theory; operator algebras
- A18 Constructive quantum field theory; models of quantum fields
- A19 Renormalization theory
- A20 Commutation relations
- A24 Bethe-Salpeter equation
- A27 Current algebra
- A30 Broken symmetries
- A33 Covariant wave equations
- A36 Strong interaction
- A39 Electromagnetic interaction
- A42 Weak interaction
- A45 Potential scattering theory [For WKB methods, see also 34E20.]
- A48 S-matrix theory and other scattering theory
- A51 Dispersion theory
- A54 Applications of group theory to elementary particles
- A57 Other elementary particle theory
- A60 Applications of group theory to nuclear physics
- A63 Other nuclear physics
- A66 Applications of group theory to atomic physics
- A69 Other atomic physics
- A72 Applications of group theory to molecular physics
- A75 Other molecular physics
- A78 General group representation motivated by physics but not covered by 81A54, 81A60, 81A66, 81A72, representations of concrete classical groups such as $SL(n, C)$, $U(p, q)$, etc.
- A81 Quantum mechanics of many-body systems
- A84 Superconductivity and superfluidity

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

A87 Mathematically heuristic quantum mechanics (must also be assigned at least one other classification number in this section)

82—XX STATISTICAL PHYSICS, STRUCTURE OF MATTER

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05** Mathematical general statistical mechanics
- A15** Mathematical quantum statistical mechanics
- A25** Phase transitions
- A30** Statistical thermodynamics [See also 80—XX.]
- A35** Irreversible thermodynamics
- A40** Kinetic theory of gases
- A45** Plasma
- A50** Liquids
- A55** Solids
- A60** Crystals
- A65** Metals
- A70** Transport processes [See also 85A25.]
- A75** Nuclear reactor theory
- A77** Mathematically heuristic statistical physics (must also be assigned at least one other classification number in this section)

83—XX RELATIVITY

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

83A05 Special relativity

83B05 Observational and experimental questions

83Cxx General relativity

- C05** Einstein's equations
- C10** Equations of motion
- C15** Closed form solutions
- C20** Classes of solutions
- C25** Approximation procedures, weak fields
- C30** Asymptotic procedures (radiation, news functions, etc.)
- C35** Gravitational waves
- C40** Groups of motions, invariance groups, observation laws, etc.
- C45** Quantization of the gravitational field
- C50** Electromagnetic fields
- C55** Hydrodynamics [See also 76Y05.]
- C99** None of the above, but in this section

83D05 Relativistic gravitational theories other than Einstein's

83Exx Unified field theories

- E05** Geometrodynamics
- E10** Asymmetric field theories
- E15** Five- and higher-dimensional theories
- E99** None of the above, but in this section

83F05 Cosmology

85—XX ASTRONOMY AND ASTROPHYSICS [For celestial mechanics, see 70F15.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05** Galactic and stellar dynamics
- A10** Astronautics
- A15** Stellar structure
- A20** Stellar atmospheres
- A25** Radiative transfer
- A30** Hydrodynamic and hydromagnetic problems [See also 76Y05.]
- A35** Statistical astronomy
- A40** Cosmology [For relativistic cosmology, see 83F05.]
- A45** Radio astronomy

86—XX GEOPHYSICS [See also 73Nxx, 76U05, 76V05.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05** Hydrology, hydrography, oceanography
- A10** Meteorology
- A15** Seismology
- A20** Potentials, prospecting
- A25** Geo-electricity and geomagnetism
- A30** Geodesy, mapping problems
- A35** Atmospheric physics

90—XX ECONOMICS, OPERATIONS RESEARCH, PROGRAMMING, GAMES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- 90Axx Mathematical economics** [For econometrics, see 62P20.]
- A05 Decision theory [See also 62Cxx.]
 - A10 Utility theory
 - A15 Economic models
 - A20 Economic time series analysis [See also 62M10.]
 - A99 None of the above, but in this section
- 90Bxx Operations research and management science**
- B05 Logistics, inventory, storage
 - B10 Flows in networks, deterministic
 - B15 Flows in networks, probabilistic
 - B20 Highway traffic
 - B25 Reliability and maintenance [See also 60K20, 62N05.]
 - B30 Production theory
 - B35 Scheduling theory
 - B40 Search theory
 - B99 None of the above, but in this section
- 90Cxx Mathematical programming** [For dynamic programming, see 49Cxx; for papers emphasizing calculus of variations or involving abstract spaces, see 49Dxx.]
- C05 Linear programming
 - C10 Integer programming
 - C15 Stochastic programming
 - C20 Quadratic programming
 - C25 Convex programming
 - C30 Nonlinear programming
 - C35 Network programming, programming in networks
 - C40 Markov programming
 - C45 Markov renewal programming
 - C50 Applications of mathematical programming
 - C99 None of the above, but in this section
- 90Dxx Game theory**
- D05 2-person zero-sum games
 - D10 n-person games, noncooperative
 - D12 n-person games, cooperative, solution concepts
 - D13 Games for a continuum of players
 - D15 Multistage games, stochastic [See also 93E05.]
 - D20 Multistage games, recursive
 - D25 Differential games
 - D30 Utility theory [See also 90A10.]
 - D35 Decision theory [See also 62Cxx, 90A05.]
 - D40 Game theory models [See also 65Cxx, 68A55.]
 - D45 Applications of game theory
 - D99 None of the above, but in this section

92-XX BIOLOGY AND BEHAVIORAL SCIENCES

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)
- A05 Biology [See also 73Pxx, 76Zxx.]
- A10 Genetics

- A15 Population dynamics, epidemiology
- A20 Sociology
- A25 Psychology

93-XX SYSTEMS, CONTROL [For optimal control (nonsynthetic), see 49-XX.]

- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
- 01 Elementary exposition (collegiate level)
- 02 Advanced exposition (research surveys, etc.)
- 03 Historical
- 04 Explicit machine computation and programs (not the theory of computation or programming)

93Axx General

- A05 Axiomatic system theory
 - A10 General systems
 - A15 Large scale systems (approximation techniques)
 - A99 None of the above, but in this section
- 93Bxx Controllability, observability, and system structure**
- B05 Controllability, observability, definitions and criteria
 - B10 Canonical structure
 - B15 Realizability of systems from input-output data
 - B20 Minimal systems representations
 - B25 Algebraic theory of time-invariant systems
 - B30 System identification
 - B35 Sensitivity
 - B99 None of the above, but in this section

93Cxx Control systems, guided systems

- C05 Linear
- C10 Nonlinear
- C15 Systems governed by ordinary differential equations
- C20 Systems governed by partial differential equations
- C22 Systems governed by integral equations
- C25 Systems in abstract spaces
- C30 Systems governed by functional relations other than differential or integral equations
- C40 Adaptive
- C45 Time-invariant
- C50 Time-dependent
- C55 Discrete-time
- C60 Continuous-time
- C99 None of the above, but in this section

93Dxx Stability

- D05 Ljapunov stability
- D10 Popov-type stability of feedback systems
- D15 Stabilization of systems by feedback
- D99 None of the above, but in this section

93Exx Stochastic systems and control

- E05 Stochastic games, stochastic differential games
- E10 Estimation problems (filtering, prediction, data smoothing, system identification)
- E15 Stochastic stability
- E20 Optimal stochastic control (continuous parameter)

AMS (MOS) SUBJECT CLASSIFICATION SCHEME (1970)

- E25 Computational methods
- E99 None of the above, but in this section

- 94—XX INFORMATION AND COMMUNICATION, CIRCUITS, AUTOMATA** {For papers in pattern recognition, linguistics and formal languages, see 68A30, 68A45.}
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 01 Elementary exposition (collegiate level)
 - 02 Advanced exposition (research surveys, etc.)
 - 03 Historical
 - 04 Explicit machine computation and programs (not the theory of computation or programming)
 - A05 Communication theory [See also 60J30.]
 - A10 Coding theory
 - A15 Information theory [See also 62B10.]
 - A20 Circuits, networks; applications of graph theory and Boolean algebra
 - A25 Sequential machines
 - A30 Automata, general [See also 02F10, 18B20, 68A25.]
 - A35 Probabilistic automata

- 96—XX MATHEMATICAL EDUCATION, ELEMENTARY**
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 03 Historical
 - 96Axx Curriculum development**
 - A05 Arithmetic
 - A10 Algebra
 - A15 Geometry
 - A99 None of the above, but in this section
 - 96Bxx Instructional techniques**
 - B05 Individual differences
 - B10 Discovery method
 - B15 Laboratory method
 - B20 Computer assisted instruction
 - B25 Programmed materials
 - B30 Manipulative materials (Cuisenaire rods, etc.)
 - B99 None of the above, but in this section
 - 96C05 Testing**
 - 96D05 Enrichment**
 - 96E05 Superior students**
 - 96F05 Slow learners**
 - 96G05 Psychological studies**
 - 96H05 Teacher training**

- 97—XX MATHEMATICAL EDUCATION, SECONDARY**
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)

- 03 Historical
- 97Axx Curriculum development**
 - A05 Arithmetic
 - A10 Algebra
 - A15 Geometry
 - A20 Calculus and analysis
 - A25 Probability and statistics
 - A30 Computer mathematics and numerical analysis
 - A35 Applied mathematics
 - A99 None of the above, but in this section
- 97Bxx Instructional techniques**
 - B05 Individual differences
 - B10 Discovery method
 - B15 Laboratory method
 - B20 Computer assisted instruction
 - B25 Programmed materials
 - B30 Media and learning aids
 - B99 None of the above, but in this section
- 97C05 Testing**
- 97D05 Enrichment**
- 97E05 Superior students**
- 97F05 Slow learners**
- 97G05 Psychological studies**
- 97H05 Teacher training**

- 98—XX MATHEMATICAL EDUCATION, COLLEGIATE**
(including two-year college)
- 00 Difficult to classify at the second level (must also be assigned at least one other classification number in this section)
 - 03 Historical
 - 98Axx Curriculum development**
 - A05 Arithmetic
 - A10 Algebra
 - A15 Geometry
 - A20 Calculus and analysis
 - A25 Probability and statistics
 - A30 Computer mathematics and numerical analysis
 - A35 Applied mathematics
 - A99 None of the above, but in this section
 - 98Bxx Instructional techniques**
 - B05 Individual differences
 - B10 Discovery method
 - B15 Laboratory method
 - B20 Computer assisted instruction
 - B25 Programmed materials
 - B30 Media and learning aids
 - B99 None of the above, but in this section
 - 98C05 Testing**
 - 98D05 Enrichment**
 - 98E05 Superior students**
 - 98F05 Slow learners**
 - 98G05 Psychological studies**
 - 98H05 Teacher training**

69. GENERAL APPLIED MATHEMATICS
00 General

70. MECHANICS OF PARTICLES AND SYSTEMS

- 06 Order, lattices, ordered algebraic structures
- 30 Functions of a complex variable
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 49 Calculus of variations, optimal control
- 50 Geometry
- 53 Differential geometry
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

73. ELASTICITY, PLASTICITY

- 00 General
- 30 Functions of a complex variable
- 32 Several complex variables
- 34 Ordinary differential equations
- 35 Partial differential equations
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 62 Statistics
- 65 Numerical methods

76. FLUID MECHANICS, ACOUSTICS

- 00 General
- 20 Group theory and generalizations
- 30 Functions of a complex variable
- 31 Potential theory
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 45 Integral equations
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 53 Differential geometry
- 60 Probability
- 65 Numerical methods

78. OPTICS, ELECTROMAGNETIC THEORY

- 30 Functions of a complex variable
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 42 Fourier analysis
- 45 Integral equations
- 62 Statistics
- 65 Numerical methods

80. CLASSICAL THERMODYNAMICS, HEAT TRANSFER

- 30 Functions of a complex variable
- 35 Partial differential equations
- 45 Integral equations
- 46 Functional analysis
- 53 Differential geometry
- 65 Numerical methods

81. QUANTUM MECHANICS

- 00 General
- 02 Logic and foundations
- 05 Combinatorial theory, graph theory
- 06 Order, lattices, ordered algebraic structures
- 15 Linear and multilinear algebra, matrix theory
- 17 Non-associative rings and algebras
- 20 Group theory and generalizations
- 22 Topological groups and Lie theory
- 28 Measure and integration
- 30 Functions of a complex variable
- 32 Several complex variables
- 33 Special functions
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations and optimal control
- 53 Differential geometry
- 58 Global analysis, analysis on manifolds
- 60 Probability
- 62 Statistics
- 65 Numerical methods

82. STATISTICAL PHYSICS, STRUCTURE OF MATTER

- 00 General
- 06 Order, lattices, ordered algebraic structures
- 10 Theory of numbers
- 20 Group theory and generalizations
- 22 Topological groups and Lie theory
- 28 Measure and integration
- 30 Functions of a complex variable
- 34 Ordinary differential equations
- 35 Partial differential equations
- 41 Approximations and expansions
- 42 Fourier analysis
- 44 Integral transforms, operational calculus
- 45 Integral equations
- 46 Functional analysis
- 47 Operator theory
- 49 Calculus of variations, optimal control
- 54 General topology
- 60 Probability
- 62 Statistics
- 65 Numerical methods

83. RELATIVITY

- 00 General
- 20 Group theory and generalizations
- 26 Functions of real variables
- 34 Ordinary differential equations
- 35 Partial differential equations
- 49 Calculus of variations, optimal control
- 50 Geometry
- 53 Differential geometry
- 57 Topology and geometry of manifolds

85. ASTRONOMY AND ASTROPHYSICS

- 22 Topological groups and Lie theory
- 31 Potential theory
- 34 Ordinary differential equations
- 35 Partial differential equations
- 45 Integral equations
- 47 Operator theory
- 53 Differential geometry
- 62 Statistics
- 65 Numerical methods

86. GEOPHYSICS

- 31 Potential theory
- 33 Special functions
- 35 Partial differential equations
- 62 Statistics
- 65 Numerical methods

SUBJECT INDEX

This index is arranged in accordance with the classification scheme described on p. 2613. Only those headings under which there are entries are reproduced below.

References are to review numbers; an Errata Section may be found on pp. 2789 - 2792 below. Russian authors are listed under the transliteration spelling of Russian used by Mathematical Reviews (see table on p. 2793). Surnames consisting of more than one part (e.g., von Humboldt, de Branges, etc.) are listed under the first capital letter.

Each review is listed under each of the classification numbers that have been assigned to it; secondary classifications are indicated by the review number's being in parentheses. Each review is also listed under each author; only one author is given in each entry but the fact of multiple authorship is indicated by et al. following the name of the author listed. The names of persons associated with a reviewed item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are given in parentheses. Items without indicated authors are listed alphabetically, in each section, following the items with authors. An asterisk (*) preceding a review number indicates that the item in question is a book.

00--XX GENERAL

-00 Difficult to classify at second level

(Bauer, W. R.)	1835	(MacKenzie, Robert)	1835
(Benner, R. H.)	1835	(Marshall, Arthur)	1835
(Boas, R. P., Jr.)	1835	(McCarthy, Donald J.)	1835
(Butter, D. A.)	1835	(Riley, J. D.)	1835
(Chev, James)	1835	(Roth, Emil)	1835
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(DeLone, M. J.)	1835	(Schuneman, John)	1835
(Deskins, W. E.)	1835	(Simmons, G. J.)	1835
(Fraenkel, A. S.)	1835	(Transue, William K.)	1835
(Gillmer, Robert)	1835	(Vanden Rynden, C.)	1835
(Grossman, H.)	1835	(Waterhouse, W. C.)	1835
(Haggard, G.)	1835	(Wrench, J. W.)	1835
(Howard, F. T.)	1835	Complements and comments	1835
(Klankin, Murray)	1835		

A10 Collection of papers: Proceedings of conferences of general interest, translation of volumes, etc. [See also 01A75.]

(Ahlfors, Lars V.)	*10737	(Gustafson, William H.)	5755
(Aiyar, V. Ramaswami)	*3671	(Hall, Marshall, Jr.)	*5756
(Akisuki, Yasuo)	*10743	(Hanna, Amel)	5755
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(Apostol, T. M.)	5755	(Hausdorff, Felix)	*21
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(Asser, Günter)	*21	(Hoschke, Hans J.)	*8172
(Ault, J. C.)	5755	(Hoffman, F.)	*10747
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(Balakrishnan, A. V.)	*5757	(Ivanov, V. V.)	*10741
(Bartlow, T. L.)	5755	(Johnsonbaugh, Richard)	5755
(Bass, Hyman)	*3656a-c	(Jones, William B.)	*5775
(Bergum, G. E.)	5774	(Jordan, J. H.)	5774
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(Breuer, James W.)	5755	(Kawaguchi, Akitsugu)	*15
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(Brown, Robert F.)	(975)	(Kline, Morris)	*1838
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(Călugăreanu, G.)	*10	(Kra, Irvin)	*10737
(Carpintero Organero, Pablo)	*1	(Kreimer, H. F.)	5755
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(Conti, R.)	*5758, *5759	(Kupcov, N. P.)	
(Dare, R. B.)	5755		*3660, *3663, *8168
(Drew, J. H.)	5755	(Kuroš, A. G.)	*20
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(Gagaev, B. M.)	*5760	(Mal'cev, A. I.)	*16
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(Golberg, M. A.)	5755		

(Nitropol's'kij, Ju. O.)

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(Moore, M. H.)	5755
(Mosenkis, Daniel)	5755
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Herman, Gabor T.; et al.	(5832)	Taniguchi, Kenichi; et al.	(8211)
Jackowski, Janice A.; et al.	(5832)	Tourlakis, G.; et al.	(10230)
Kasagi, Tadao; et al.	(8211)		
Livčak, A. B.	1906		
Macintyre, Angus	87		

G10 Axiomatizability

Fine, Kit	(5824)	Melis, Erika; et al.	5843
Hauschild, Kurt	88	Rennie, M. K.	5844
Hauschild, Kurt; et al.	5843		

G15 Finite axiomatizability

De Lillo, Nicholas J.	8223	Robinson, Julia	8224
Herre, Heinrich; et al.	(10796)	Selected questions of algebra and logic	8224
Rautenberg, Wolfgang; et al.	(10796)		

G20 Completeness, categoricity, etc.

Abian, Alexander	1908	Olin, P.	1909
Baldwin, John T.	89	Paljutin, E. A.	10793
Dahn, Bernd	3728	Sanchis, Luis E.	(10770)
Germano, Giorgio	90	Simmons, H.; et al.	(10792)
Macintyre, A.; et al.	(10792)		

02Hxx Model theory

(Morley, M. D.)	*5845	Model theory	*5845
MAA Studies in Mathematics, Vol. 8: Studies in model theory	*5845	Studies in model theory	*5845

H05 Models for theories in classical predicate calculus

Baldwin, John T.	(89), 10794	MLček, J.	(1917)
Blanc, Georges; et al.	91	Omarov, A. I.	1914
Bloom, Stephen L.	92	Ostaszewski, A. J.	5848
Boalos, George S.	93	Podewski, Klaus-Peter	8226
Boven, K. A.	(5859)	Pouset, Maurice	10797
Burris, Stanley	(5817)	Preller, Anne; et al.	91
Collet, Jean-Claude	10795	Rautenberg, Wolfgang; et al.	10796
Ehrenfeucht, Andrzej; et al.	1910	Robinson, Abraham	8464
Fittler, Robert	8225	Rosenthal, John W.	1915
Fuhrken, G.; et al.	1910	Rubin, Jean E.	5849
Galvin, Fred	3729	Schwabhäuser, Wolfram	*3732
Greenclinger, M.	1911	Silver, Jack H.; et al.	96
Henson, C. Ward	94	Simmons, H.	10798
Herre, Heinrich; et al.	10796	Slomson, A. B.	(3698)
Hodges, Wilfrid	95	Tabata, Hiroyoshi	5850
Isbell, John R.	(2027)	Waszkiewicz, Jan	10799, 10800
Kaiser, Klaus	3730, 3731	Weispfenning, Volker	10801
Kashiwagi, Takeo	5846	Zaharov, D. A.	97
Keisler, H. Jerome; et al.	96	Papers in the foundations of mathematics	(8464)
Kotas, Jerry	1912		
Lachlan, A. H.	5847		
Malcolm, W. G.	1913		

H10 Models for other theories

Belegradec, O. V.	98	Szcszserba, L. V.	(1919)
Lasaffre, Brigitte	(8597)	Selected questions of algebra and logic	5851
Mostowski, A.	5851		
Pacholaki, L.	3733		

H13 Model constructions

Boffa, M.	99	Shelah, Saharon	3735
Fittler, Robert	3734	Wood, Carol	100

H15 Applications to algebra, number theory, etc. [See also 13L05.]

Bacsich, Paul D.	(3840)	van Praag, Paul; et al.	101
Boffa, Maurice; et al.	101	Rautenberg, Wolfgang; et al.	3737, (8220)
Eklof, Paul C.	3736	Vinogradov, A. A.	(5952)
Hauschild, Kurt; et al.	3737, (8220)	Weese, Martin	5852
Herre, Heinrich; et al.	3737	Wood, Carol	8227
Igošin, V. I.	(8350)	Studies in algebra, No. 3	(8350)

H20 Nonstandard models

Rlass, Andreas	1916	Mostowski, Andrzej	(3721)
Goldrei, D. C.; et al.	(5853)	Phillips, N. C. K.	8228
Greenclinger, M.	(1911)	Shepard, Philip T.	(8210)
Macintyre, A.; et al.	(5853)	Simmons, H.; et al.	(5853)
MLček, J.	1917		

H25 Applications of nonstandard models [See also 10M15, 12L15, 26A98, 30A91.]

Adler, Andrew; et al.	(2664)	Farikh, R.; et al.	(3085)
Henson, C. Ward; et al.	(2708)	Farnes, M.; et al.	(3085)
Komkov, Vadim; et al.	(4412)	Voros, A.	(3378)
Hamilton, James; et al.	(2664)	Wald, Carter; et al.	(4412)
Luxemburg, W. A. J.	10802	Papers in the foundations of mathematics	10802
Moore, L. C., Jr.; et al.	(2708)		

02Jxx Algebraic logic

J05 Boolean algebras, lattices, topologies

Herre, Heinrich; et al.	(10796)	Serfati, Michel	(10947)
Marsden, E. L.	(10773)	Bobocifski, Bolesław	1918
Petrascu, Ioana	(10928)	State, Luminita	(10929)
Rautenberg, Wolfgang; et al.	(10796)	Stojaković, M.	8229
		Logique, automatique, informatique (10928), (10929)	

- J10 Algebra of relations**
 Saccheria, L. W. 1919
- J15 Cylindric and polyadic algebras**
 Pinter, Charles 102,103,3738 Sobociński, Bolesław 104,10803
- J99 None of the above, but in this section**
 Georgescu, George 1920
 Grant, John 5854
 Mal'cev, I. A. 5855,5856
 Meyer, Robert K.; et al. 5857
 Poljakov, E. A.; et al. (5956)
 Prawitz, Dag (3695)
 Routley, Richard; et al. 5857
 Šceglov, A. I.; et al. (5956)
 Waszkiewicz, Jan (10800)

02Kxx Set theory

- Jech, Thomas J. *105

K05 Consistency and independence results

- Abian, Alexander 3739,3740 Kanovey, V. 8231
 Bowen, K. A. 106 Marek, W. 107
 Chusquillo, Rolando 5858 Monro, G. P. 3741
 Fenstad, Jens Erik (10806) Proceedings of the
 Guszicki, Wojciech 1921 Scandinavian Logic Sym-
 Hájek, Petr 1922 posium, Second (Oslo, 1970)
 Halpern, J. D.; et al. 8230 (10806)
 Howard, Paul E.; et al. 8230

K10 Nonclassical set theories

- Boffa, Maurice 8232

K15 Axiomatics

- Bukovský, Lev 10804 Marek, W. (107)
 Davis, James D. 1923 Perlis, Donald 1924
 Enderton, Herbert B. 3723 Stahl, Gerold 8233
 Grigorieff, Serge 10805 Vershinin, K. P. 8234
 Harris, John H. 108 Wesley, Eugene (493)

K20 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 04A25.]

- Hajnal, A.; et al. 8235 Kertész, A. 8235
 Halpern, J. D.; et al. (8230) Monro, G. P. (3741)
 Howard, Paul E.; et al. (8230) Wright, J. D. Maitland (6991)

K25 Continuum hypothesis, generalized continuum hypothesis [See also 04A30.]

- Rowbottom, Frederick (1928)

K30 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 04A15, 28A05, 54H05.]

- Fenstad, Jens Erik 10806 Proceedings of the
 Silver, Jack 10807 Scandinavian Logic Sym-
 posium, Second (Oslo, 1970) 10806

K35 Large cardinals and ordinals (inaccessible, etc.)

- Bowen, K. A. (106),5859 Magidor, M. 5860
 Devlin, K. J.; et al. 8236 Máté, Attila; et al. 1925
 Drake, F. R. 3742 Mathias, A. R. D. 10809
 Ellentuck, Erik 3743 Paris, J. B.; et al. 8236
 Fodor, Géza; et al. 1925 Rowbottom, Frederick 1928
 Hechler, Stephen H. (2967) Shore, Richard A.; et al. 1927
 Jech, Thomas J. (3744) Węglorz, B. 5861
 Ketonen, Jussi 1926,8237,10808 Wojciechowska, A. 109
 Kleinberg, E. M.; et al. 1927

04—XX SET THEORY**-01 Elementary exposition (collegiate level)**

- Carpintero Organero, Pablo (*1) Four works on topology,
 Rubin, Jean E. 5862 Boolean algebras, general
 continuum hypothesis and
 function spaces (*1)

A05 Relations, functions [See also 08A05.]

- Dráskovičová, H. 10811 Motzkin, T. S.; et al. (1933)
 Graham, R. L.; et al. (1933) Zuckerman, M. M. 110
 Knuth, D. E.; et al. (1933)

A10 Transfinite numbers

- Anderson, John A. H. 10812 Knight, C. J. (1138)
 De Lillo, Nicholas J. (8223) Levitz, Hilbert (3710)
 Fodor, Géza; et al. (1925) Marchisa, Giuseppe 10815
 Foldes, Istvan 10813 Máté, Attila; et al. (1925)
 Hickman, J. L. 10814 Monro, G. P. (3741)

- Hazarov, A. G. 1929,8238,8239 Collection of articles dedi-
 Pinus, A. G. 10816,10817 cated to Andrzej Mostowski
 on the occasion of his six-
 tieth birthday, I 10814

A15 Descriptive set theory; Borel classifications, Suslin schemes, etc. [See also 02K30, 28A05, 54H05.]

- Kechris, Alexander S.; et al. Silver, Jack (10807)
 (1900) Vaught, Robert 10818
 Moschovakis, Yiannis N.; et
 al. (1900)

A20 Combinatorial [See also 05A05.]

- Chang, C. C. 1930 Psarski, Kazimierz 8241,8242
 Erdős, P.; et al. 10819 Shelah, Saharon 5864
 Friedman, Harvey 5863 Shelah, Saharon; et al. 8240
 Galvin, Fred; et al. 8240 Shore, R. A.; et al. (1927)
 Jech, Thomas J. 3744 Węglorz, B. (5861)
 Kleinberg, E. M.; et al. (1927)
 Milner, E. C. 10819

A25 Axiom of choice and equivalent propositions (Zorn's Lemma, etc.) [See also 02K20.]

- Bell, J. L.; et al. 5865 Rubin, Herman; et al. 1931
 Fremlin, D. H.; et al. 5865 Rubin, Jean E.; et al. 1931
 Howard, Paul E.; et al. 1931 Wiśniewski, K. 8243
 Plastria, F. (12446)

A30 Continuum hypothesis, generalized continuum hypothesis [See also 02K25.]

- Krom, M. R. (12457)

05—XX COMBINATORICS (For finite fields, see 12Cxx.)**-04 Explicit machine computation and programs (not the theory of computation or programming)**

- Brezina, Jaroslav (3806)

-06 Collections of papers, proceedings of conferences

- (Eames, W. R.) (*5776) Numerical mathematics (*7525,*10034)
 (Hoffman, F.) (*8247,*10747) Permutations (Actes Colloq.,
 (Levov, R. B.) (*8247,*10747) Paris, 1972) *8246
 (Stanton, R. G.) (*5776) Proceedings of the Conference
 (Thomas, R. S. D.) (*5776,*7525), on Combinatorial Mathe-
 *8247,(*10034,*10747) matics, Math. Inst.,
 (Welsh, D. J. A.) *8245 Oxford, 1972 *8245
 (Williams, H. C.) (*7525,*10034) Proceedings of the Manitoba
 (Woodall, D. R.) *8245 Conference on Numerical
 Actes du Colloque sur les Per- Mathematics, 1971 (*7525)
 mutations (Paris, 1972) *8246 Proceedings of the Manitoba
 Atti del Convegno di Geomet- Conference on Numerical
 ria Combinatoria e sue Mathematics, Third (Winnipeg,
 Applicazioni (Univ. Man., 1973) (*10034)
 Perugia, 1970) *8244 Proceedings of the South-
 Canadian Mathematical Congress eastern Conference on
 (*5776) Combinatorics, Graph Theory,
 Colloque sur les Permuta- and Computing (*8247,*10747)
 tions (Paris, 1972) *8246 Proceedings of the Summer
 Combinatorial geometry and Meeting of the Canadian
 its applications *8244 Mathematical Congress,
 Combinatorics (*8247,*10747) Twenty-Fifth, 1971 (*5776)
 Combinatorics (Proc. Conf., Southeastern Conference on
 Oxford, 1972) *8245 Combinatorics, Graph The-
 Computing *8247,(*10747) ory, and Computing
 Congressus Numerantium (*10034) *8247,(*10747)
 Geometry *8244 Summer Meeting of the
 Graph theory *8247,(*10747) Canadian Mathematical
 Manitoba Conference on Congress, Twenty-Fifth,
 Numerical Mathematics, 1971 (*5776)
 Manitoba Conference on Numer- 1971 (*5776)
 ical Mathematics, Third
 (Winnipeg, Man., 1973) (*10034)

05Axx Classical combinatorial problems**A05 Combinatorial choice problems; subsets, representatives**

- Abbott, H. L.; et al. 10820 Hahn, H. S. (264)
 Abian, Alexander 5866 Hajnal, A.; et al. 3745
 Bollobás, Béla 5867 Hanson, Denis; et al. 10820
 Borges, R. 5868 Jakóbczyk, F. 5869
 Carlitz, L. 111 Kleitman, Daniel J.; et al.
 Cserwifskas, D. 1932 1933,1934,8248,10821
 Erdős, P.; et al. 112,(5655),10821 Kurljandcik, Ja. M. 10823
 Fishburn, Peter C. 10822 Lageveg, B. J. 10844
 Graham, R. L.; et al. 1933 Magnanti, T. L.; et al. 8248
 (Makai, Endre) (1850)

A05 Continued

- Mann, Henry (4157)
 McCarthy, P. J. 1935
 Monjardet, B. 5870
 Motzkin, T. S.; et al. 1933
 Nakano, Takeo 5871
 Rothschild, Bruce; et al. 3745
 Sauer, Norbert 5872
 Selfridge, J. L.; et al. (5655)
 Shelah, Saharon 10824
 Smetanic, Ja. S. 5873
 Spencer, Joel; et al. 112,1934
- Sperner, Emanuel 10825
 Stein, Sherman K. 8249
 Stone, Harold S. 10826
 Syszo, M. M. 1936
 van der Waerden, B. L. (1850)
 Woodhouse, D. (8376)
 Collection of articles dedicated to the memory of Alfred Rényi, II 5868
 Mathematical logic, theory of algorithms and theory of sets 5873

A10 Factorials, binomial coefficients, combinatorial functions

- Ahuja, J. C. 1937
 Alter, Ronald 8250
 Alter, Ronald; et al. 113
 Bernard, Jacques; et al. (3200)
 Bruckman, Paul S. 8251
 Carlitz, L. 10827
 Ceccherini, Pier Vittorio; et al. 1938
 Chandra, Ashok K. 5874
 Curtz, Thaddeus B. 113
 Dragomir, Achim; et al. 1938
 Gould, H. W. (6736)
 Gupta, Hansraj 10828,10829
- Lehmer, D. H. 3748
 Letac, Gérard; et al. (3200)
 Long, Calvin T. (3871)
 Moore, Carl F. (8367)
 Richter, Bernd 10830
 Proceedings Louisiana Conference on Combinatorics, Graph Theory and Computing (1971), Second 8250
 The theory of arithmetic functions (Proc. Conf., Western Michigan Univ., Kalamazoo, Mich., 1971) 10827

A15 Combinatorial enumeration problems, generating functions

- Carlitz, L. 3749,3750,8252
 Carlitz, L.; et al. 8253
 Carlitz, Leonard 3751
 Cvetković, Dragos M.; et al. 5875
 Das, Shavpam Kumar 1939
 Entringer, R. C. (267)
 Fröberg, Carl-Erik (266)
 Grimsom, R. C. 10831
 Gupta, Hansraj (5995)
 (Hartzman, Peter D.) *10833
 Kesava Menon, P. 5876
 Kotlov, V. M.; et al. (12931)
- (Loerinc, Beatrice M.) *10833
 Rathie, P. N. 10832
 Rohatgi, V. K. 8254
 Scoville, Richard; et al. 8253
 Smić, Slobodan K.; et al. 5875
 Vaughan, Theresa; et al. 8253
 Whitehead, Earl Glen, Jr. 10833
 Zak, Ju. O.; et al. (12931)
 Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday 3750

A17 Partitions [See also 10A45.]

- Abbott, H. L.; et al. 5877
 Brylawski, Thomas 3752
 Chang, C. C. (1930)
 Deuber, Walter 3753
 Gupta, Bhisam Chand; et al. 10837
 Hickerson, Dean R. 5878
 Milner, E. C. 10834
 Motzkin, Theodore S. 10835
 Stanley, Richard P. 3754,*10836
 Szöke, László 5879
- Tracy, D. S.; et al. 10837
 Williams, E. R.; et al. 5877
 Combinatorics (Proc. Sympos. Pure Math., Vol. XIX, Univ. California, Los Angeles, Calif., 1968) 10835
 Proceedings of the Summer Meeting of the Canadian Mathematical Congress, Twenty-Fifth, 1971 10834

A19 Combinatorial identities

- Carlitz, L. 1940
 Gould, H. W. 3746,10838
 Karlsson, Per W. 3747
 Pasche, I. 114
 Srivastava, H. M. 1941
- Subbarao, M. V. 115,8255
 Zierler, Neal 5880
 Proceedings of the Washington State University Conference on Number Theory (1971) 8255

A20 Combinatorial inequalities

- Afriat, S. N. (11163)
 Borell, Christer 1942
- Klarner, D. A.; et al. 1943
 Rivest, R. L.; et al. 1943

A99 None of the above, but in this section

- Blum, Manuel; et al. 8256
 Floyd, Robert W.; et al. 8256
 Graham, R. L.; et al. 8257
 Lentin, André 8258
 Pratt, Vaughan; et al. 8256
 Rivest, Ronald L.; et al. 8256
- Rothschild, B. L.; et al. 8257
 Tarjan, Robert E. 8256
 Symposium on the Theory of Computing, Fourth Annual ACM 8256

05Bxx Designs and configurations

- (Barlotti, A.) *10839
 Bruen, A.; et al. (12265)
 (Kay, David C.) (49547)
 (Klotz, B.) (12227)
 (Quissner, E.) (12227)
 Silverman, R.; et al. (12265)
 C.I.M.E., 1972, II Ciclo *10839
 Combinatorial geometry (*9547)
 Convexity (*9547)
 Finite geometric structures and their applications (C.I.M.E., 1972) *10839
- Geometrie (*12227)
 Grundlagen der Geometrie und algebraische Methoden (*12227)
 Kolloquium "Grundlagen Methoden", Potsdam, 1973 (*12227)
 Proceedings of the Conference on Convexity and Combinatorial Geometry (Univ. Oklahoma, 1971) (*9547)
 Projective geometry *10839

B05 Block designs [See also 62K10.]

- Aigner, M.; et al. 116
 Bhagvandas; et al. 3755
 Biggs, Norman (*5905)
 van Eupenhout, Jean 8259,8260
 Das, M. N.; et al. 10840
 Doob, Michael 10841
 Dowling, T. A.; et al. 116
 Doyen, Jean; et al. 117,118,5881
 Feit, Walter 5882
 Ferrero, Giovanni 1944,5883
 Hall, Marshall, Jr. 119
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 Kimberley, Marion E. 121
 Kingsley, R. A.; et al. 10843
 Köhler, Egmont 8261
 Lawless, J. F. 8262
 van Lint, J. H. 3757
 Marrero, Osvaldo 3758
 Mendelsohn, W. S. 122
 Pellegrino, Giuseppe (1949)
 Petrenjuk, A. Ja. 123
 Rao, S. V. S. P.; et al. 10840
 Rokovska, Barbara 3759
 Rosa, Alexander 10845
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 Schreiber, Shmuel 10846
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 Singhi, N. M.; et al. 3760
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- Storer, Thomas 10847
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 Vandensavel, Monique; et al. 117
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 Welsh, D. J. A. 3761
 Wilson, Richard M. 3762
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 Combinatorics (Proc. Sympos. Pure Math., Vol. XIX, Univ. California, Los Angeles, Calif., 1968) 119
 Computers in number theory (Proc. Sci. Res. Council Atlas Sympos. No. 2, Oxford, 1969) 122
 Proceedings of the Manitoba Conference on Numerical Mathematics, 1971 10841,10843
 Théorie des matroïdes (Rencontre Franco-Britannique Brest 1970) 3761

B10 Difference sets (number-theoretic, group-theoretic, etc.)

- Hsu, Harry T.; et al. 8264
 Huff, G. B. 10849
 Neumann, Peter M. 10850
- Olson, John E.; et al. 8264
 Collection of articles dedicated to Wilhelm Magnus 10850

B15 Orthogonal arrays, Latin squares

- Brayton, R. K.; et al. 5886
 Coppersmith, Donald; et al. 5886
 Cruse, Allan B. 8265
 Evans, Trevor 3763
 Gergely, Ervin 10851
 Gross, K. B.; et al. 10852
 Gulati, Bodh Raj 124
 Hedayat, A. 125
 Hilton, A. J. W.; et al. 8266
 Hoffman, A. J.; et al. 5886
 Light, F. W., Jr. 3764
- Lindner, Charles C. 126
 Maurin, Francis 127
 Mullin, R. C.; et al. 10852
 Parker, E. T. 5887
 Ruiz, Felipe; et al. 8267
 Scott, S. H.; et al. 8266
 Seiden, Esther; et al. 8267
 Wallis, W. D.; et al. 10852
 Combinatorics (Proc. Sympos. Pure Math., Vol. XIX, Univ. California, Los Angeles, Calif., 1968) 5887

B20 Matrices (incidence, Hadamard, etc.)

- Bridges, W. G. 10853
 Burkill, H.; et al. 128
 Cameron, Peter J. (391)
 Delarte, P.; et al. 3765
 Geramita, A. V.; et al. 10854
 Goethals, J. M.; et al. 3765
 Levin, Mordecai 10855
 Luxembourg, W. A. J. 129
 Mirsky, L.; et al. 128
 Olson, W. H.; et al. 1945
- Payne, Stanley E. (*1158)
 Pullman, N. J.; et al. 10854
 Seidel, J. J.; et al. 3765
 Uppuluri, V. R. R. 1945
 Vrta, Antonín 1946
 Wallis, Jennifer Seberry 5888
 Report of the Algebra Group Radon's function and Hadamard arrays. 10854

B25 Finite geometries

- Biscarini, Paola 199
 Bose, R. C.; et al. 5889
 Brannell, D. L.; et al. 130
 Buekenhout, Francis; et al. 131
 Dehder, Roger; et al. 131
 Denniston, Ralph Hugh Francis 1947,1948,10856
 Doyen, Jean; et al. (118)
 Drake, David A. 10857
 Entringer, R. C.; et al. 8269
 Ferrero, Giovanni (1944)
 Hubaut, X. (120)
 Kalmanson, Kenneth 8268
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- Pellegrino, Giuseppe 1949
 Rosa, Alexander; et al. (118)
 Rothschild, B. L.; et al. 10858
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 Simmons, G. J.; et al. 8269
 Wilson, B. J.; et al. 130
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B30 Other designs, configurations

- Dillon, John F.; et al. 3766
 Ehrhart, Eugène 10859
 Entringer, R. C.; et al. 10860
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- Jackson, D. E.; et al. 10860
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 Mendelsohn, R. S.; et al. 8271
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B30 Continued

- Fatenaude, Robert 10864
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- Yue, P. C.; et al. 133
 Combinatorics (Proc. Sympos. Pure Math., Vol. XIX, Univ. California, Los Angeles, Calif., 1968) 132
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B35 Matroids, geometric lattices

- (Bruter, C. P.) *135
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 Dowling, T. A.; et al. 8275
 Ingelton, A. W.; et al. 8276
 Kelly, D. G.; et al. 8275
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- Rota, Gian-Carlo; et al. 5891
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 (Tutte, W. T.) *135
 Combinatorics (Proc. Sympos. Pure Math., Vol. XIX, Univ. California, Los Angeles, Calif., 1968) 10865
 Théorie des matroïdes (Rencontre Franco-Britannique, Brest, 1970) 134, 135, 3773, 5892

B40 Packing and covering [See also 10E30, 52A45.]

- Cusick, T. W. 10866
 Ehrhart, Eugène (10990)
 Sigmasvskij, V. A.; et al. 8278a-b
- Širokov, F. V.; et al. 8278a-b

B45 Tessellation and tiling problems

- Hamaker, William 5893
 Schwarzenberger, R. L. E. 1950

05Cxx Graph theory (For applications of graphs, see 94A20.)

- (Alavi, Y.) *8279
 Busacker, Robert G.; et al. *136
 (Harary, Frank) (*8129)
 (Lick, D. R.) *8279
 Marshall, Clifford W. 1951
 (Read, Ronald C.) *8280
 Saaty, Thomas L.; et al. *136
 (White, A. T.) *8279
 (Wilf, Herbert S.) (*8129)
 (Youngs, J. W. T.) (*8129), *8279
- Colloque sur la Théorie des Graphes (Bruxelles, 1973) *137
 Computing *8280
 Conference on Graph Theory and Computing, Univ. of the West Indies, Kingston, Jamaica, 1969 *8280
- Graph theory *137, (*8129)
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M10 Valued fields

- Eliecartien, R. (6016)

M20 Matrices [See also 15A36.]

- Feaux, Charles (8537) The arithmetical theory of quadratic forms, II (8537)

10Nxx Connections with logic

N05 Decidability

- Fenstad, Jens Erik (85)
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N15 Nonstandard arithmetic [See also 02H25.]

- Mazola, Guerino (3879)
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12-XX ALGEBRAIC NUMBER THEORY, FIELD THEORY AND POLYNOMIALS

-01 Elementary exposition (collegiate level)

- Collins, G. E. 2106 Ribenboim, Paulo 8432

-02 Advanced exposition (research surveys, etc.)

- Zimmer, Horst G. *2107

-04 Explicit machine computation and programs (not the theory of computation or programming)

- Cartier, P.; et al. (8451)
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-06 Collections of papers; proceedings of conferences

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12Axx Algebraic number theory: global fields (For complex multiplication, see 10D25.)

A05 Analogues in number fields of elementary number theory

- McDaniel, Wayne L. 11034 Takahashi, Shōichi 2108

A15 Special algebraic numbers (PV numbers, etc.)

- Smyth, C. J. 3912

A20 Polynomials (irreducibility, etc.)

- Agou, S. 8434
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A25 Quadratic fields

- Barrucand, Pierre; et al. 6055
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A30 Cubic and quartic fields

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- Shapiro, Harold N.; et al. 11037
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A35 Abelian and metabelian extensions (including cyclotomic, Kummer, cyclotomic)

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A45 Units and factorization

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A60 Galois cohomology

- Takahashi, Toyofumi (3924)

A65 Class field theory

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A70 Zeta-functions and L-functions of number fields
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A80 Arithmetic and zeta-functions of algebras

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A90 Arithmetic theory of algebraic function fields
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- Arithmetical theory of quadratic forms, I (2073)

12Bxx Algebraic number theory: local and p-adic fields

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- Gusev, G. I. 8449 Moser, Claude (8388)

B10 Ramification and extension theory

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- Wagner, C. G. 11061 Zel'venskiĭ, I. G. 11062

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- Fresnel, Jean; et al. (9264b)
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- Broue, Michel; et al. (3596)
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C20 Cyclotomy

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C25 Exponential sums

- Porter, A. Duane 6066

12Dxx Real and complex fields

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D10 Polynomials: location of zeros [Algebraic theorems; for the analytic theory, see 26A78, 30A08.]

- Barnett, S. 2120 Galyean, Paul H.; et al. 8456
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D15 Formally real fields

- Carns, G. L. 3929
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E05 Polynomials (irreducibility, etc.)

- Alter, Ronald 11068 Ribenboim, P. 11070
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E10 Special polynomials

- Kubota, K. K. (8459) Nöbauer, Wilfried; et al. (2231)
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E99 None of the above, but in this section

- Frey, Gerhard 3931 Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday 3932
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F05 Algebraic extensions

- Endo, Michiko 2121 Sters, U.; et al. 275
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F10 Separable extensions, Galois theory

- Bastida, Julio R. 11071 Martinet, Jacques; et al. (8442)
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F15 Inseparable extensions, derivations

- Deveney, James; et al. 8462
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- Mordeson, John N.; et al. 8461
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F20 Transcendental extensions

- Boffa, Maurice; et al. (101) van Praag, Paul; et al. (101)

12Cxx Homological methods

G05 Galois cohomology [See also 12A60, 18H10.]

- Brylinski, M. (6113) van Oystaeyen, F. (11196)
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G99 None of the above, but in this section

- Kopelevič, N. M. 11072

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H05 Differential algebra

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H10 Difference algebra

- Cohn, Richard M. 8463

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J10 Valued fields

- Warner, Seth 6068 Wiśniew, W. 3936

J15 Ordered fields

- Robinson, Abraham (2124), 8464 Papers in the foundations of mathematics 8464

J20 General valuation theory

- Rayner, F. J. 3937

J99 None of the above, but in this section

- Heine, J. 3938 Wiśniew, Witold 3939

12Lxx Connections with logic

L15 Nonstandard arithmetic [See also 02H25.]

- Młček, J. (1917)

13-XX COMMUTATIVE RINGS AND ALGEBRAS (For finite commutative rings, see 12Cxx.)

-01 Elementary exposition (collegiate level)

- Policino Milies, Francisco Cesar (*2168)

-02 Advanced exposition (research surveys, etc.)

- Knight, J. T. *8465

-06 Collections of papers; proceedings of conferences

- (Brewer, James W.) *8466 Proceedings of the Ring Theory
 (Gordon, Robert) *8467 Conference, Univ. of
 (Magid, Andy R.) *2125 Oklahoma, 1973 *2125
 (McDonald, Bernard R.) *2125 Proceedings of the Ring Theory
 (Rutter, Edgar A.) *8466 Symposium, Park City, Utah,
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A10 Radical theory

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- Guassone, Stefano (9654)
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- Roggenkamp, K. V.; et al. 8469
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A20 Brauer group [See also 16A16.]

- Childs, L. N. 8472 Ring theory (Proc. Oklahoma
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A99 None of the above, but in this section

- Abian, Alexander 3944 Gorbachuk, E. L. 8473
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13Bxx Ring extensions and related topics

B05 Galois theory

- Holleman, Aalbert *3945 Nagahara, Takasi 2131, 11079
 Martinez, Juan Jose 2130

B10 Automorphisms and derivations

- Kuan, Wei Eihn 11080 Villamayor, O. E.; et al. 6073
 Lequain, Yves 6072 Collection of articles dedi-
 Mount, Kenneth R.; et al. 6073 cated to Helmut Hasse on his
 Orbanz, Ulrich 6074 seventy-fifth birthday 6074
 Ribenboim, Paulo Report of the Algebra Group 11081
 (8503), 11081
 Sato, Shizuka 2132

B15 Ramification theory

- Epp, Helmut P. (294) Moser, Nicole (6059)

B20 Integral dependence; integral closure; integrally closed rings; related rings (Japanese, etc.)

- Davis, Edward D. 3946 Henoud, Lella; et al. 11082
 Flamant, Maurice; et al. 11082

B25 Polynomials over commutative rings

- Agou, S. 2133 Geramita, A. V. 2135
 Antoy, Sergio 11083 Mignotte, Maurice 6075
 Brewer, J. W.; et al. 2134 Montgomery, P. R.; et al. 2134
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B99 None of the above, but in this section

- Bastida, Eduardo R. 3947 Magid, Andy R. 11084
 Borho, Walter 8476 Speed, T. P. 8478
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 Kanazaki, Teruo (11104) Conf., 1973) 8477
 Kitamura, Kazuo 6071

13Cxx Theory of modules and ideals

C05 Structure, classification theorems

- Albu, Toma 8479 Wiegand, Roger 6076
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C10 Special types (projective, injective, free, flat, torsion, reflexive, etc.) [See also 18005.]

- Bertin, José; et al. (11107) Gupta, S. K.; et al. 8482
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 Geramita, A. V.; et al. 11090 Simis, Aron *8483
 Sridharan, R.; et al. 8482

C10 *Continued*

- Vasconcelos, Wolmer V. 284,2136 Symposia Mathematica, Vol. VIII 11092
Wiegand, Roger 6079

C15 *Dimension theory, depth, related rings (catenary, etc.)*

- Furuya, Mamoru 6080 Tsutsui, Tadahiko 6083
Gilmer, Robert 11093 Ring theory (Proc. Oklahoma Conf., 1973) 11093
McAdam, Stephen 11094
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C99 *None of the above, but in this section*

- Krull, Wolfgang (3823)

13Dxx *Homological methods (For cohomology of rings and algebras, see 18H20.)*D15 *Class group, Grothendieck group, K-theory (See also 18P25.1)*

- Brylinski, T. H. (8343) Evans, E. Graham, Jr.; et al. 6084
Eisenbud, David; et al. 6084

D99 *None of the above, but in this section*

- Bousfield, A. K.; et al. 6085 Miu, Ion 2137
Gover, Eugene H. 11095 Mott, Joe L. 11096
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Kirby, D. 8484 Simis, Aron 6087

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- Borosch, G. 3949 Johnson, Johnny A. (3819)
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E99 *None of the above, but in this section*

- Shores, Thomas S. 8486

13Fxx *Arithmetic rings*F05 *Dedekind and Prüfer rings and their generalisations*

- Cohn, P. M. 8487 Sheldon, Philip B. 11097
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F10 *Principal ideal rings*

- Roquette, Peter 3950 Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday 3950

F15 *Factorial rings, unique factorisation domains*

- Bayart, Marc 6088 Fogarty, John 3952
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F20 *Polynomial rings (See also 10M05.)*

- Dawson, Jeffrey; et al. 8490 Sloane, N. J. A.; et al. 3954
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F99 *None of the above, but in this section*

- Picavet, Gabriel 6091

13G05 *Integral domains*

- Bastida, Eduardo; et al. 2138 Hedstrom, John R. 6092
Brandal, Willy 3956 Heinzer, William; et al. 6093
Borosch, Gustav (3940) Otm, Jack; et al. 6093
Gilmer, Robert; et al. 2138 Singh, Surjeet 11098

13Hxx *Local rings and semilocal rings*H05 *Regular local rings*

- Bresnahan, A.; et al. (6105) Radu, N.; et al. (6105)
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H10 *Special types (Maculay, Gorenstein, etc.)*

- Borosch, G. (3941) Malliavin-Brammeret, Marie-Paule 6096
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H15 *Multiplicity theory and related topics*

- Gröbner, Wolfgang (48499) Vogel, Wolfgang 6098
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H99 *None of the above, but in this section*

- Rees, D. 11100 Symposia Mathematica, Vol. VIII 8497,11100
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13Jxx *Topological rings (For ordered rings, see 06A70; see also 16A80.)*J05 *Power series rings*

- Arnold, Jimmy T. 11101 Robinson, Abraham (8464)
Bender, Edward A. 2142 Conference on Commutative Algebra (Univ. Kansas, 1972) 11101
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J15 *Henselian rings*

- Mora, Fulvio 11103

J99 *None of the above, but in this section*

- Aragona, Jorge 8498 Hindman, Neil 291

13K05 *Witt vectors and related rings*

- Baeza, Ricardo 6101 Ware, Roger; et al. 6103
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Cordes, Craig M. (4003)
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Laborde, Olivier (11169)
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- Gröbner, Wolfgang 48499

-02 *Advanced exposition (research surveys, etc.)*

- Tognoli, Alberto 6104

-06 *Collections of papers; proceedings of conferences*

- (Gel'fand, S. I.) 411106 Logic (48592)
(Kirillov, A. A.) 411106 Seminar on algebraic groups 411106
(Lavere, F. W.) (48592)
Algebraic geometry (48592) Toposes, algebraic geometry and logic (48592)
Algebraic groups 411106
Conference on Connections between Category Theory and Algebraic Geometry & Intuitionistic Logic, Dalhousie Univ., Halifax, Nova Scotia, 1971 (48592)

14Axx *Foundations*A20 *Generalizations (algebraic spaces, motifs)*

- Nastold, H. J. (8857) Symposia Mathematica, Vol. XI (8857)

A25 *Elementary questions*

- Collino, Alberto (2979) Roberts, L. G. 6106
Eklof, Paul C. (3736) Stengle, Gilbert (11073)
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14Bxx Local theory

B05 Singularities [See also 14E15.]

- Bertin, José; et al. 11107 Krasnov, V. A. (8841)
 Carbone, Philippe; et al. 11107 Risler, Jean-Jacques 2143
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E10 Infinitesimal methods

- Seidenberg, A. 11108

E15 Local cohomology [See also 18H20.]

- Peskine, Christian 11109 Comptes-Rendus des Journées
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B20 Formal neighborhoods

- Speiser, Robert (3964)

14Cxx Cycles and subschemes

C05 Parametrization (Chow and Hilbert schemes)

- Bloch, Spencer 3960

C15 Rational equivalence rings, intersection theory

- Becheanu, M. (6108) Knight, A. J. 6107

C20 Divisors, linear systems, Picard groups

- Antoy, Sergio (11083) Laksov, Dan; et al. (2148)
 Becheanu, M. 6108 Lønsted, Knud (11112)
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 Godeaux, Lucien (3976) Rosen, Michael (3923)
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C25 Zero-cycles

- Roitman, A. A. 6109

C30 Transcendental methods, Hodge theory

- Bloch, Spencer (3960) Kiy, K. I. 11110
 Jan, C. J. 3957

14Dxx Families, fibrations

D05 Structure of families (Picard-Lefschetz, Picard-Fuchs theory, etc.)

- Dolgačev, I. V. (6116) Sommes, Andrew J. (2430)
 Krasnov, V. A. (8841) Teissier, Bernard (8840)
 Lê Dũng Tráng (4347) Complex analysis, 1972,
 Malgrange, B. (8839) Vol. II (2430)
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D15 Formal methods; deformations [See also 32Gxx.]

- Brezuleanu, A.; et al. 6105 Risler, Jean-Jacques (2143)
 Meredith, David (8505) Wavrik, John J. (11573)
 Rădu, N. 6105

D20 Algebraic moduli problems [For analytic moduli problems, see 32G13.]

- Fogarty, John (3952) Ramanan, S. 3962
 Gieseker, David (3963)

14Exx Mappings and correspondences

E05 Rational maps, birational correspondences

- Filippov, N. D. (295) Rollero, Aldo 6112
 Frumkin, M. A. 6111 Shannon, David L. (8492)

E10 General correspondences

- Villa, Mario (2151)

E15 Global theory of singularities, resolution

- Frumkin, M. A. (6111) Holme, Audun 8501
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 Berszberg, J. 293 Shannon, David L. (8492)

E20 Coverings, fundamental group

- Epp, Helmut P. 294

E25 Embeddings

- Nakamura, Iku; et al. (575) Ueno, Kenji; et al. (575)

E35 Results in dimension ≤ 3

- Filippov, N. D. 295

E99 None of the above, but in this section

- Goodman, Jacob Eli; et al. 6114 Simis, Aron (6087)
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14Fxx Cohomology theory [See also 13Dxx, 18-XX.]

F05 Vector bundles, sheaves, related constructions

- Gieseker, David 3963 Ogawa, Roy H. (4343)
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 Levary, Richard A. 6115 Ramanujan, C. P. 8502
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F10 Differentials and other special sheaves

- Bertin, José; et al. (11107) Mount, Kenneth R.; et al. (6073)
 Carbone, Philippe; et al. (11107) Ribenboim, Paulo 8503
 Gupta, S. K.; et al. (8482) Sridharan, N.; et al. (8482)
 Knighten, Carol M. 2144 Villamayor, O. E.; et al. (6073)

F15 Serre cohomology, K-theory [See also 13D15, 18F25.]

- Maebashi, Toshiyuki 8504

F20 Grothendieck cohomology and topology

- Dolgačev, I. V. 6116 Šermenev, A. M. 2145
 Jouanolou, J. P. 11115 Speiser, Robert (11114)

F25 Classical real and complex cohomology

- Artin, M.; et al. (299) Mumford, D.; et al. (299)
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F30 p-adic cohomology

- Mazur, B. (297, 8507) Monsky, Paul 296
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14Gxx Arithmetic problems [For complex multiplication, see 10D25, 14K22.]

- Zimmer, Horst G. (*2107)

G05 Rationality questions

- Arakelov, S. Ju. (298) Miyawaki, Isao 6118
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 Kurcanov, P. F. 6117 cated to Helmut Hasse on
 Lewis, Donald-J.; et al. 3965 his seventy-fifth birthday
 Mazur, B. (297) 3965

G10 Zeta-functions and related questions.

- Katz, Nicholas M.; et al. 11117 Messing, William; et al. 11117
 11117 Milne, J. S. (8512)

G13 Weil-Tate conjectures

- Joly, Jean-René (6065) Analytic number theory (Proc.
 van Meter, Robert G. (3926) Sympos. Pure Math., Vol.
 Mit'kin, D. A. 8506, (11120) XXIV) 11119
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G20 p-adic ground fields (local fields)

- Mazur, B. 297, 8507

G25 Global ground fields

- Al'-Hader, N. Z.; et al. (11125) Bařmakov, M. I.; et al. (11125)
 11125 Milne, J. S. (8512)

G99 None of the above, but in this section

- Bonardi, Maria Teresa 3966 Miller, Leonard 2146

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H05 Algebraic function fields

- Alling, Norman L.; et al. (11488) Queen, Clifford S.; et al. (3922)
 Greenleaf, Newcomb; et al. (11488) Rosen, Michael (3923), 6119
 Madan, Manohar L.; et al. (3922) Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday (3922)
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H10 Families, moduli (algebraic)

- Arakelov, S. Ju. 298

H15 Families, moduli (analytic) [See also 32G13.]

- Duma, Andrei (11576) Jenkins, James A. (6405)
 Helling, H. (2427)

H20 Singularities, local rings

- Lebowitz, Aaron (4303) Rollero, Aldo 2147

H25 Arithmetic ground fields

- Arakelov, S. Ju. (298) Lang, Serge 3968
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H30 Coverings, fundamental group

- Giesecker, David (3963) Speiser, Robert 3964

H35 Correspondences

- MacRae, R. E. (8448)

H40 Jacobians [See also 32G20.]

- Kleiman, Steven L.; et al. 2148 Rosen, Michael (6119)
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H45 Special curves

- Edge, W. L. 8508 Kryz, Jaromir (304)

H99 None of the above, but in this section

- Kubota, K. K. (8459) Rosina, B. A. (8516)

14Jxx Surfaces and 3-dimensional varieties

J05 Picard group

- Tjurin, A. N. 8509

J10 Families, moduli, classification: algebraic theory

- Artin, M.; et al. 299 Mayer, Alan L. 8510
 Martynov, B. V. 11123 Mumford, D.; et al. 299

J15 Singularities, moduli, classification: analytic theory [See also 32J15.]

- Horikawa, Eiichi (8511) Tjurin, A. N. (8509)
 Inoue, Masahisa (574)

J25 Special surfaces

- Chiarli, Nadia 11134 Horikawa, Eiichi (8511)
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 Furinghetti, Fulvia 3969 Tjurin, A. N. (8509)
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14Kxx Abelian varieties and schemes

K10 Algebraic moduli, classification

- (Deligne, Pierre) (*8389) Proceedings of the International Summer School, University of Antwerp, 1972 (*8389)
 (Kuyk, Willem) (*8389)
 Modular functions of one variable, II (*8389)

K15 Arithmetic ground fields

- Al'-Wader, N. Z.; et al. 11125 Ohta, Masami 11126
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 Birch, B. J. (10984) Zarhin, Ju. G.; et al. 11127
 Harase, Takashi (6120) Complex analysis, 1972, Vol. I 3971
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 Milne, J. S. 300, 301, 6121, 8512

K20 Analytic theory

- Lang, Serge *6122

K22 Complex multiplication [See also 10D25.]

- (Kuyk, Willem) (*2079, *2080) Proceedings of the International Summer School, University of Antwerp, 1972 (*2079, *2080)
 Lang, Serge (3968)
 (Serre, J.-P.) (*2080)
 Modular functions of one variable (*2079, *2080)

K25 \mathcal{D} -functions

- Igusa, Jun-ichi *3972 Lang, Serge (*6122)

14Lxx Group schemes (For linear algebraic groups, see 20Gxx.)

L05 Formal groups, p -divisible groups

- Cox, Lawrence 3973 Lazard, Michel 11129a-b
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L15 Group schemes

- Borovskiy, Ju. E. 6124 Grosshans, Frank 3975
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L20 Finite group schemes

- Morris, Robert A. (277) Simon, Anne-Marie 303

L25 Pro-algebraic group schemes

- Minbashian, F. (4140)

L99 None of the above, but in this section

- Fogarty, John 11130 Grosshans, Frank (11343)

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M05 Varieties defined by ring conditions (factorial, Macaulay)

- Hochster, Marvin; et al. (8495) Roberts, Joel L.; et al. (8495)
 Mead, D. G. (3935) Vogel, Wolfgang; et al. (289)
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M10 Complete intersections

- Chen, Bang Yen; et al. 11131 Jan, C. J. (3957)
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M15 Grassmannians, homogeneous spaces

- Kleiman, S. L.; et al. (2152) Musili, C. (8515)
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M20 Rational varieties

- Brylinski, M. 6113 Satake, I. (8861)

M99 None of the above, but in this section

- Ogino, Koichi (1123) Differential geometry (in honor of Kentaro Yano) (1123)

14Nxx Classical methods and problems

N05 Projective techniques

- Casazza, Enrica 3978 Leibin, A. S.; et al. 1059, 6110, 6126, 11122
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N10 Enumerative problems

- Flores, Angelo (9535) Laksov, Dan; et al. 2152
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-06 Collections of papers; proceedings of conferences

- (Ramakrishnan, Alladi) *321
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 Proceedings of the Conference on Clifford Algebras, its Generalization and Applications (Ootacamund, 1971) *321

A03 Vector spaces, linear dependence, rank

- Fourneau, René 6127 Radu, Florin 11137
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A06 Linear equations

- Marugiac, I. 8518

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A12 Conditioning of matrices [See also 65F35.]

- Tavast, R. 6129

A15 Determinants, permanents, other special matrix functions

- Ben-Israel, A.; et al. 8523 Ključnik, I. F. 11144
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- Barker, G. P.; et al. 3983 Muhamadiev, E.; et al. 3984
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A21 Canonical forms, reductions, classification

- Azoff, Edward A. (9415) Roiter, A. V.; et al. (11288)
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A30 Algebraic systems of matrices [See also 16A42, 20Gxx, 20Hxx.]

- Buckhiester, Philip G. 3991 Komara, Imrich 315, 316
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- Buckhiester, Philip G. 8534 Fischer, P. 8535
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A36 Matrices of integers [See also 10M20.]

- Brunaldi, Richard A.; et al. 2161 Henderson, J. R.; et al. 11155
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- Echivard, Michel 8601 Wyler, Oswald (2972)

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- Bokstein, M. F. 6211 Collection of articles on homology theory 6211
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- (Bass, Hyman) (43656a-c) Classical algebraic K-theory (43656b)
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 Algebraic K-theory, II: "Classical" algebraic K-theory and connections with arithmetic (43656b) Higher K-theories (43656a)
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- Fröhlich, A. 11258
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- Amaro Caamaño, B. 8603
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- Berkson, A.; et al. 379
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-03 Historical

- Vasco Uribe, Carlos E. 11262

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- (Birkhoff, Garrett) (*5756)
 (Hall, Marshall, Jr.) (*5756)
 Algebra and computers (*5756)
 Computers in algebra and num-
 ber theory (*5756)
 Number theory and computers (*5756)
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- Actes du Colloque sur les
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-02 Advanced exposition (research surveys, etc.)

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22C05 Compact groups

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D05 Semigroups of operators (For Markov processes, see 60Jxx.)

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Hisamura, Tomiji; et al.	12210	Russell, David L.	7070
Inagaki, Eiichi; et al.	12210	Sumin, V. I.; et al.	9502
Komkov, Vadim	2863, 7069	Troickiy, V. A.; et al.	12211

B30 Problems in abstract spaces

Bazaraa, M. S.; et al.	2864	Osmolovskiy, N. P.; et al.	7071
Elster, Karl-Heinz; et al.	(10510)	Pevny, A. B.	12214
Fraddock, A. L.	12212	Raitums, U.; et al.	7073
Fucini, A.; et al.	2865	Šaskov, V. M.; et al.	7074
Gamkrelidze, R. V.	9503	Scarpini, F.; et al.	2865
Goode, J. J.; et al.	2864	Schiavino, A.; et al.	2865
Götz, Rainer; et al.	(10510)	Slugin, S. N.; et al.	7074
Gurin, L. G.	9504	Collection of articles dedicated to Academician Ivan Matveevich Vinogradov on his eightieth birthday, I	9503
Levitin, E. S.; et al.	7071	Latvian mathematical yearbook, 12	7072, 7073
Miljutin, A. A.; et al.	7071		
Mosco, U.; et al.	2865		
Mysovskiy, P. I.	7072		
Mysovskiy, P. I.; et al.	7073		
Nenakov, E. I.	12213		

B35 Problems involving functional relations other than differential equations

Ahmed, N. U.; et al.	7075	Melser, S. M.; et al.	2869
Bakke, V. L.	12215	Nardizzi, L. R.; et al.	9508
Cadzov, James A.	2866	Nicoletti, Bernardo; et al.	9507
Connor, M. A.	9505	Tarn, M. Y.; et al.	9508
Georganas, N. D.; et al.	7075	Terno, Johannes; et al.	7953
Hautus, M. L. J.	9506	Ullrich, Matthias; et al.	7953
Korytowski, Adam	998	Mathematical systems theory and economics, I, II (Proc. Internat. Summer School, Varenna, 1967)	2868
Kugusev, E. I.	12216		
Kuo, B. C.; et al.	2869		
Lawden, G. H.	2867		
Lee, C. F.	12217		
Lee, E. B.	2868		

B40 Minimax problems

Basar, T.; et al.	2870	Nirenberg, L.; et al.	(2850)
Brézi, N.; et al.	(2850)	Stampacchia, G.; et al.	(2850)
Mintz, M.; et al.	2870		

B99 None of the above, but in this section

Afriat, S. N.	2871	Popov, V. I.	999
Boltjanskii, V. G.	2872	Rajamani, V. S.; et al.	1000
Desai, R. C.; et al.	4883	Singh, R. N. P.; et al.	1000
Lalwani, C. S.; et al.	4883		

49Cxx Carathéodory, Hamilton-Jacobi theories, including dynamic programming

C05 Free problems and problems involving ordinary differential equations

Bistrickas, V. B.	12218	Orel, E. N.	4884
Martelli, Alberto; et al.	7076	Taylor, James G.	(5661)

C10 Free problems and problems involving partial differential equations

Amouroux, Marcel	2873	Invariant imbedding (Proc. Summer Workshop on Invariant Imbedding, Univ. Southern California, Los Angeles, Calif., 1970)	9509
Cohen, Gerald H.; et al.	9509	Tagungsbericht zur ersten Tagung der WK Analysis (1970)	12219
Jain, Anil K.; et al.	9509		
Klötzler, Rolf	12219		
Krasovskiy, A. A.	(13373)		

C15 Problems in abstract spaces or involving functional relations other than differential equations

Bistrickas, V.	7077	Logan, J. D.	7078
Fox, B. L.	2874		

C99 None of the above, but in this section

Kun, L. A.; et al.	7079	Pronoxin, Ju. F.; et al.	7079
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49Dxx Methods of successive approximations

D05 Methods based on necessary conditions

Hildebrand, S. K.; et al.	7080	Milnes, H. W.; et al.	7080
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D10 Methods of steepest descent type

- | | | | |
|--------------------------|------|--------------------------------------|--------|
| Bertran, Jean-Pierre | 1001 | Rodnišev, H. E. | (3252) |
| Dem'janov, V. F.; et al. | 7081 | Voiton, E. F.; et al. | 7081 |
| Gemburd, P. R. | 1002 | Willoughby, J. K.; et al. | 9510 |
| Neumann, Klaus | 4885 | Wolfe, Philip | 9511 |
| Murminskij, E. A. | 2875 | Mathematics of numerical computation | 9511 |
| Pierson, B. L.; et al. | 9510 | | |

D15 Methods of Newton-Raphson, Galerkin and Ritz types

- | | | | |
|------------------|------|----------------|------|
| Daniel, James W. | 1003 | Schultz, M. H. | 2876 |
|------------------|------|----------------|------|

D20 Methods of relaxation type

- | | | | |
|----------------|------|--|--|
| Miellou, J. C. | 2877 | | |
|----------------|------|--|--|

D30 Other methods, not based on necessary conditions (penalty function, etc.)

- | | | | |
|---------------|------|-------------|------|
| Pevnyi, A. B. | 7082 | Zolezzi, T. | 7083 |
| Skarin, V. D. | 4886 | | |

D35 Methods of linear programming type

- | | | | |
|-------------------------------|-------|-----------------|-------|
| Lévine, Pierre; et al. | (894) | Rubinov, M. M. | 9512 |
| Pomerol, Jean-Charles; et al. | (894) | Vereskov, A. I. | 12220 |

D45 Methods of convex programming type

- | | | | |
|----------------------------|------------|---|------|
| Bulavskij, V. A. | 9513, 9514 | Mitchell, B. F.; et al. | 9516 |
| Dem'janov, V. F.; et al. | 9516 | Poljak, R. A.; et al. | 1005 |
| Goldstein, A. A.; et al. | 1004 | Tapia, R. A.; et al. | 1004 |
| Kirilevskij, L. A.; et al. | 1005 | Approximation theory (Proc. Internat. Sympos., Univ. Texas, Austin, Tex., 1973) | 9515 |
| Kul'chik, O. Ju. | (12829) | | |
| Laurent, P. J. | 9515 | | |
| Malozemov, V. N.; et al. | 9516 | | |

D99 None of the above, but in this section

- | | | | |
|----------------------------------|--------|---|--------|
| Chao, K. S.; et al. | (7579) | Poljakova, L. H.; et al. | 7084 |
| Dem'janov, V. F.; et al. | 9518 | Price, A. L.; et al. | (2851) |
| Dmitriev, M. G.; et al. | (892) | Rafatov, R.; et al. | 1006 |
| Egorov, A. I.; et al. | 1006 | Rupp, Russell D. | 1007 |
| Eremin, I. I. | 2878 | Schäuble, Manfred; et al. | 4888 |
| de Figueiredo, Rui J. P.; et al. | (7579) | Seidler, Karl-Heinrich; et al. | 4888 |
| Gladududinov, E. H. | 2879 | Vidyasagar, M.; et al. | 4887 |
| Goldstein, E. G. | (4893) | Vinogradova, T. K.; et al. | 9518 |
| Gorlov, V. M. | (3506) | Voiton, E. F.; et al. | 7084 |
| Gracovetsky, Serge A.; et al. | 4887 | Zoutendijk, G. | 12221 |
| Habetler, G. J.; et al. | (2851) | Control systems, No. 2 | 2879 |
| Martensson, K. | 9517 | Proceedings of the Princeton Symposium on Mathematical Programming (1967) | 12221 |
| Milčić, D. | (670) | | |
| Pevnyi, A. B.; et al. | 9518 | | |
| Polesuk, V. S.; et al. | (892) | | |

49Exx Controllability and geometry of control problems

E05 General dependence on controls

- | | | | |
|-------------------|---------|-----------------------|-------|
| Čebykin, L. S. | 1008 | Mandrioli, D.; et al. | 7085 |
| Gatto, M.; et al. | 7085 | Müller-Pfeiffer, E. | 12153 |
| Krut'ko, P. D. | 7086 | Rinaldi, S.; et al. | 7085 |
| Lando, Ju. K. | (12096) | | |

E10 Orientor fields (contingency equations)

- | | | | |
|------------------|------|--|--|
| Cesari, Lamberto | 1009 | | |
|------------------|------|--|--|

E15 Attainable sets, controllability

- | | | | |
|----------------------------|--------------|-----------------------------|--------|
| Bertsekas, D. P.; et al. | 1010 | Reghi, M.; et al. | (4446) |
| Biris, V.; et al. | (4446) | Rhodes, I. B.; et al. | 1010 |
| Jurdjevic, Velimir; et al. | 9519 | Ekijar, B. Š. | 9523 |
| Kirlica, V. P. | 9520 | Sussmann, Hector J.; et al. | 9519 |
| Lotov, A. V. | 9521 | | |
| Marcenko, V. M. | (3516), 9522 | | |
| Petrov, N. H. | 1011 | | |
| Plis, A. | 12222 | | |

E20 Interrelations between stability problems and optimisation problems

- | | | | |
|------------------|------------|--|------------|
| Jakubović, V. A. | 4889, 7087 | Proceedings of the All-Union Conference on Automatic Control—Engineering Cybernetics, Fourth (Tbilisi, 1968), Vol. 2 | 9524, 9526 |
| Malgerin, B. Ž. | 9524 | | |
| Meleha, A. M. | 9525 | | |
| Šemrikov, B. M. | 9526 | | |

E25 Effect of perturbations on controllability

- | | | | |
|--------------------|------|----------------------|------|
| Krupowicz, Andrzej | 7088 | O'Malley, R. E., Jr. | 7089 |
|--------------------|------|----------------------|------|

E30 Relations between controllability and optimal solutions

- | | | | |
|------------------------|------|--------------------------|------|
| Andreev, V. A.; et al. | 7090 | Špeljavij, A. I.; et al. | 7090 |
| Belea, C.; et al. | 7091 | Tkár, D.; et al. | 7091 |

E99 None of the above, but in this section

- | | | | |
|--------------|------|-----------|------------|
| Ekland, Ivar | 4890 | Gičev, T. | 9527, 9528 |
|--------------|------|-----------|------------|

49Fxx Manifolds

F05 Exterior differential forms, invariant integrals (Cartan theory) [See also 58A15.]

- | | | | |
|----------------|-------|--|--|
| Losco, Lucette | 12946 | | |
|----------------|-------|--|--|

F10 Minimal surfaces

- | | | | |
|--------------------|--------|----------------------------|---------|
| Alt, Hans Wilhelm | 9529 | Kinata, Masahiro; et al. | (10151) |
| Burago, Ju. D. | 9530 | Kiyono, Takeshi; et al. | (10151) |
| Fomenko, A. T. | 12223 | Shimasaki, Masaaki; et al. | (10151) |
| Gackstatter, Fritz | (6420) | Simoes, Plinio | 9531 |
| Gerhardt, Claus | 2880 | | |
| Gulliver, Robert | 7092 | | |

F15 Morse theory in Hilbert and other spaces [See also 58Exx.]

- | | | | |
|--------------|------|--|--|
| Gawędzki, K. | 4891 | | |
|--------------|------|--|--|

F20 Geometric measure and integration theory, integral and normal currents, flat chains and cochains, varifolds [See also 58A25.]

- | | | | |
|---------------------|-------|--------------------------------|------|
| Averna, Alfonso | 12224 | Lawson, H. Elaine, Jr.; et al. | 2881 |
| Breckenridge, J. C. | 1012 | Simons, James; et al. | 2881 |

F22 Existence and structure of solutions to variational problems in geometric measure-theoretic setting

- | | | | |
|----------------------|------|-----------------|-------|
| De Giorgi, Ennio | 7093 | Taylor, Jean E. | 12225 |
| Marcus, M.; et al. | 1013 | Wente, Henry C. | 7094 |
| Mizel, V. J.; et al. | 1013 | | |

F25 Surface area

- | | | | |
|-------------------|--------|--|--|
| Toralballe, L. V. | (6369) | | |
|-------------------|--------|--|--|

F99 None of the above, but in this section

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|-------------------------|------|--|--|
| Berruti Onesti, Natalia | 7095 | | |
|-------------------------|------|--|--|

49Gxx Variational methods and eigenvalues

G05 Variational approach to eigenvalues

- | | | | |
|-----------------|------|-------------------|------|
| Abramov, Ju. Š. | 7096 | Bandle, Catherine | 4892 |
|-----------------|------|-------------------|------|

G10 Rayleigh-Ritz methods

- | | | | |
|-------------------------|--------|--|--------|
| Godunov, S. K.; et al. | (3235) | Partial differential equations (Proc. Sympos.) | (3235) |
| Ogneva, V. V.; et al. | (3235) | | |
| Prokopov, G. P.; et al. | (3235) | | |
| Zainee, B. | 9532 | | |

G20 Linear operators in Hilbert spaces

- | | | | |
|--------------------|--------|--|--|
| Das, Kiran Chandra | (4799) | | |
|--------------------|--------|--|--|

G99 None of the above, but in this section

- | | | | |
|------------------|-------|---------------|------|
| Fichera, Gaetano | (924) | Gregory, John | 1014 |
|------------------|-------|---------------|------|

49H05 Variational principles of physics

- | | | | |
|-------------------------|--------|-------------------------|--------|
| Daniljuk, I. I.; et al. | (2408) | Mihaljuk, M. I.; et al. | (2408) |
|-------------------------|--------|-------------------------|--------|

50-XX GEOMETRY (For algebraic geometry, see 14-XX.)

-01 Elementary exposition (collegiate level)

Dubuc, Serge *12226 Eves, Howard *1015

-04 Explicit machine computation and programs (not the theory of computation or programming)

Di Comite, Claudio; et al. (12266) Peluso, Roberto; et al. (12266)

-06 Collections of papers; proceedings of conferences

(Barlotti, A.) (*10839) Finite geometric structures and their applications (C.I.M.E., 1972) (*10839)
(Klotz, B.) *12227 Geometry (*12227)
(Pervikova, V. N.) *12228 Geometry (*12228)
(Quaißer, E.) *12228 Geometry, applied (*12228)
Applied multidimensional geometry *12228 Grundlagen der Geometrie und algebraische Methoden (*12227)
Atti del Convegno di Geometria Combinatoria e sue Applicazioni (Univ. Perugia, 1970) (*8244) Kolloquium "Grundlagen Methoden", Potsdam, 1973 (*12227)
C.I.M.E., 1972, II Ciclo (*10839) Projective geometry (*10839)
Combinatorial geometry and its applications (*8244)

50Axx Foundations

Klingenberg, Wilhelm *2882

A05 Euclidean

Beineke, L. W.; et al. (11265) Pippert, R. E.; et al. (11265)
Freese, Raymond W. 9533 Strommer, J. 7097
Neumann, Maria 9534

A15 Transformation groups

Karsel, Helmut 12229 Collection of articles dedicated to Helmut Hasse on his seventy-fifth birthday 7098
Karsel, Helmut; et al. 7098 Symposia Mathematica, Vol. XI 12229
Kroll, H.-J.; et al. 7098
Sørensen, K.; et al. 7098

A20 Algebraic characterisations [See also 06A75, 12K05, 16A76, 16A78, 16A80, 17D05, 17E05, 20H10.1]

Boscia, Renato 2883 Lawrence, Peter Ashley (8475)
Hau, C. J. (10917) Singmaster, David (8646)

A25 Models [See also 02H15.1]

Adler, Andrew 4893 Metz, Rudolf 1016

A30 Length, area, volume

Fešin, G. M. 12230

A99 None of the above, but in this section

Benz, Walter 12231

50Bxx Euclidean geometry (including equiform geometry)

Valentine, J. E.; et al. (12474) Wayment, S. G.; et al. (12474)

B05 Constructions

Flores, Angelo 9535 Selmer, Ernst S. 12232
Ignatenko, V. F.; et al. (6126) Subramanyam, S. S. 12233
Leibin, A. S.; et al. (6126)

B10 Metric formulas

Bankoff, Leon; et al. 7099 Lúsy, W.; et al. 12235a
Erdős, Paul; et al. 7099 Maitō, Jun; et al. 12236
Fabricius-Bjerre, Fr. (1057,1058), 9536 Rothschild, B. L.; et al. (11024)
Graham, R. L.; et al. (11024) Rudin, Walter 7100
Irving, H. 12235b Straus, E. G.; et al. (11024)
Iwata, Shikō 1017,12234 Trost, E.; et al. 12235a
Iwata, Shikō; et al. 12236 Volenec, Vladimir; et al. 1018
Klamkin, Murray S.; et al. 7099 van der Waerden, B. L. 12235d

B15 Inequalities

Bager, Anders 12237 Jovanović, Mirko 4894
Bottoma, Ome; et al. 12238 Jovanović, Mirko; et al. 12238

B20 Geometry of circles

Brejcha, Josef 12239 Grünbaum, Branko; et al. 12240
Erdős, Paul; et al. 12240 Rabl, K. 12241

B30 Regular figures, division of space [See also 20H15.1]

Dragomir, Virgil; et al. 9537 Leibin, A. S.; et al. (6110)
Eggleston, R. B. (10977) Medjanik, A. I. 12242
Gheorghiu, Adrian; et al. 9537 Smith, Anthony (12243)
Ignatenko, V. F.; et al. (6110) Sopov, S. P. 1019,4895

B99 None of the above, but in this section

Georgiev, S. T. 12244

50Cxx Other metric geometries

Valentine, J. E.; et al. (12474) Wayment, S. G.; et al. (12474)

C05 Elliptic and hyperbolic, general

Goźb, Stanisław 2884 Nguen Ngok Bao; et al. 12247,12248
Guc, A. K. 1020,12245
Günther, R. Helmut 9538 Petrov, G. I.; et al. 12247,12248
Hohenberg, Fritz 7101 Snaider, Zagorka 2886
Kordos, M. 12246 Verme, I. 7102
Molnár, Emil 2885 Vranceanu, G. G. 12250
Nguen Ngok Bao 12249 Wunderlich, Walter 1021

C25 Other metric geometries

Dicuonzo, Vincenzo 4896,4897 Klux, Wolf-Dieter 1022

50Dxx Geometries of other transformation groups

D05 Affine geometry, general

Amir-Moez, Ali R. 9539 Kallaher, Michael J. 1025
Boidescu, Petre 12251 Orbán, B. 12252
Burian, Kvetoslav 1023 Quaißer, Erhard 2887
Drake, David A. (10857) Roth, Roman 4999
Ewald, Günter 4898b-c Rubinstein, G. E. 9540
Fisher, J. C. 1024 Seier, Werner 12254
Hadwiger, H. 4898a Strambach, Karl 1026

D10 Affine geometry, subgroups (centroaffine, equiaffine)

Kloth, Siegfried 7103 Klotz, Benno 7104,7105

D15 Descriptive geometry

Bachmann, Gottfried; et al. 2888 Quaißer, Erhard 12253
Deumlich, Reinhard; et al. 2888 Rabl, Karl 12257
Elster, Karl-Heinz; et al. 2888 Reichardt, Hans 1027
Egorov, H. 12255,12256 Zachiesche, Hans-Ulrich 12258

D20 Projective geometry over the reals

Bilinski, Stanko 12259 Simmons, G. J. 12260
Bompiani, Enrico 4900 Srovnal, Josef 1028
Klux, Wolf-Dieter 4901 Tschupik, Josef P. 12261
Rizzi, Bruno 4902

D25 Projective geometry over other infinite fields

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Dicuonzo, Vincenzo 4903 Mahel, Vladimír 1030
Geise, Gerhard 1029 Strange, John 12264
Jachanová, Jaroslava 12262 Tanurri, Giuseppe 4904,4905
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D30 Projective geometry over finite fields

Bruen, A.; et al. 12265 Mäurer, Helmut 12268
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Di Comite, Claudio; et al. 12266 Russo, Assunta 12269
Edge, W. L. 12266 Silverman, R.; et al. 12265
Kantor, William M. (11351) Taylor, D. E. 12270
Thas, J. A. 12271

D35 Projective geometry over combinatorial or nonfield structures

Aczél, J. 7106 Johnson, N. L.; et al. 1033
Amante, V. 12272 Kallaher, Michael J. 2892
Bartolozzi, Federico 12273 Kantor, William M. 4908
Betten, Dieter 1032 Karsel, Helmut; et al. 7108
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Salzmann, Helmut 4912,4913
Saxena, Subhash C. 12282
Sørensen, Kay; et al. 7108

D35 *Continued*

- Tallini, Giuseppe 12283
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- Collection of articles honor-
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 and P. Libois (131)
 Modules and homology in
 group theory and Galois
 theory 12274

D45 *Circle and sphere geometry: Lie, Laguerre, Möbius*

- Frank, Hubert 2895
 Groh, Hans-Joachim 1034
 Heise, Werner; et al. 7110-7112, 9545
 Karzel, Helmut; et al. 7110, 7111, 9545
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- Mäurer, Helmut 2896
 Pedoe, Daniel 9546
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 Skopec, Z. A.; et al. 7113
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D50 *Geometries of other space elements*

- Bélan, Trandafir 12286 Bolotin, V. R. 12287

52-XX CONVEX SETS AND GEOMETRIC INEQUALITIES

- Smith, Anthony (12243)

-06 *Collections of papers, proceedings of conferences*

- (Kay, David C.) *9547
 Combinatorial geometry *9547
 Convexity *9547
- Proceedings of the Conference
 on Convexity and Combina-
 torial Geometry (Univ.
 Oklahoma, 1971) *9547

A05 *Convex sets without dimension restrictions*

- Bair, Jacques (4764, 9344)
 Breen, Marilyn 9548
 Dharmadhikari, S. W.; et al. 7114
- Harasivili, A. B. (12007)
 Jogdeo, Kumar; et al. 7114
 Kay, David C.; et al. (839)
 Meyer, Walter; et al. (839)

A10 *Convex sets without dimension*

- Bottena, O. 12288
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 Kiss, Ildikó 9550
 Lékó, G. 12291
- Martinova, M. K. 2897
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 Van Iwaarden, John 12292
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 Dr. Akitsugu Kawaguchi's
 seventieth birthday 9549

A15 *Convex sets in 3 dimensions*

- Aitchison, P. W. 12293
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 Keller, C. L.; et al. 1035
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- Peterskij, S. L. 12295
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A20 *Convex sets in n dimensions*

- Boltjanskij, V. G. 9552
 German, L. F.; et al. 12296
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- Soltan, V. P.; et al. 12296
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A25 *Convex polyhedra*

- Aberth, Oliver 1039
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- Jucović, C. 9556, 12304
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 Podgornova, E. G.; et al. 7118
 Schneider, Rolf 12305
 Steinberg, Leon; et al. 12300
 Versi, Giulio 1042
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| Jung, Calvin F. K. | 5032, 12478 | Scepin, E. V. | 12482 |
| Khan, M. Ahmad | 5033 | Skordev, Genco S. | 3025 |
| Lelek, A. | 1190 | Smith, J. C.; et al. | 1191 |
| Ljubešburg, L. A. | 3022, 12479 | Valiev, V. A. | (7193) |
| Mardesic, Sibe | 12480 | Collection of articles commemorating Wladyslaw Slobodzinski | 12481 |
| Nagami, Keio | 5034 | | |
| Nichols, J. C. | 3023 | | |
| Nichols, J. C.; et al. | 1191 | | |

F50 *Spaces of dimension ≤ 1 ; curves, dendrites* [See also 26A03.]

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| Ceder, Jack | 7231 | Trybulec, A. | (12466) |
| Domiaty, R. Z. | 7232 | Weron, A. | 1194 |
| Lum, Lewis | 12483 | Williams, Jerry F. | 12484 |
| Maćkowiak, T. | 9683 | Wunderlich, W. | 9684 |
| Pearson, B. J. | 5035 | | |

F55 *Unicoherences, multicoherences*

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| Dickman, R. F., Jr. | 1195 | Gordh, G. R., Jr. | 1196 |
| Dickman, R. F., Jr.; et al. | 12485 | Rubin, L. R.; et al. | 12485 |

F65 *Topological characterizations of particular spaces*

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| Berg, G. | 12486 | Nunnally, Ellard | 5036 |
| Kleiber, Martin | 9685 | Swart, Johan | 4985 |

54Gxx *Peculiar spaces*G05 *Extremely disconnected spaces, F-spaces, etc.*

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| Amihăse, C. | 12487 | | |
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G15 *Pathological spaces*

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| Vought, Eldon J. | (4998) | | |
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G20 *Counterexamples*

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| Boone, James R. | 7233 | Nyikos, Peter | (3007) |
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G99 None of the above, but in this section

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54Hxx Connections with other structures, applications

H05 Descriptive set theory (topological aspects of Borel, analytic, projective, etc. sets) [See also 04A15, 26A21, 28A05.1]

Braude, Eric John (12456) Sarbadhikari, H. (4250)
 Christensen, Jens Peter Reus (5037)
 Jayne, J. E. 12488 Mathematical logic, theory
 of algorithms and theory of
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 Lerman, D. G. 7234

H15 Transformation groups and semigroups
[See also 20Mxx, 22-XX, 57Exx.]

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 Gerko, A. I.; et al. 1197 Muhly, Paul S. (9403a-b)
 Halder, Heinz-Richard 3026 Nurudinov, B. S. 5039
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 Jaroker, I. S. 3027 Stebe, Peter F. (12595)
 Kaul, S. K. 3028 Vedernikov, V. I. 5040
 Kuz'minyh, A. V. 12489 Wang, S. P. (8688)
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H20 Topological dynamics [See also 28A65, 34C35, 58Fxx.]

Bajaj, Prem N. 7235 Montgomery, John 12492
 Bronstein, I. U. 12490 Pelczar, A. (2499), 5042
 Čeban, N. K.; et al. 3031 Petersen, Karl; et al. 1200
 Chevning, W. C. (5124) Rama Mohana Rao, M.; et al. (636)
 Čirkova, I. A.; et al. 12493 Rožko, V. F. (8986)
 Coven, Ethan M.; et al. 1199 Sacker, Robert J.; et al. 7237
 Fallone, Paul R., Jr. 5041 Ščerbakov, B. A. (4425)
 Hedlund, G. A.; et al. 1199 Sears, Michael 3030
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 Kimura, Ikuro 7236 Sell, George R.; et al. 7237
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 Markley, Nelson G. 12491 Sibirskiy, K. S.; et al. 3031, 12493
 Martin, John C. 3029 Weiss, Michael D. (2347)
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H25 Fixed-point and coincidence theorems
[See also 47H10, 55C20.]

Alič, Mladen 7238 Rogers, T. D.; et al. (2847)
 Assad, Nadim A. 1201, 5043 Rus, Ioan A. 7244
 Bennett, D. G.; et al. 12494 Sabadig, Al. 12497
 (Brown, Robert F.) (975) Săcuri, Ion; et al. 9690
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 Chatterjee, S. K. (2845) Sims, B. T. 5044
 Cohen, Haskell 7240 Singh, S. P.; et al. 1202
 Dube, L. S.; et al. 1202 Slemrod, Marshall; et al. 1203
 En-Nashef, Bassam 7241 Smithson, R. E.; et al. 7242
 Finbov, Arthur S. 7243 Solomon, J. L. (1145)
 Fisher, B.; et al. 12494 Thomas, J. W. 1205
 Geraghty, Michael A. 12495 (Thomas, James W.) (975)
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 Guseman, L. F., Jr.; et al. (2844) (Thompson, Richard B.) (975, 976)
 Hale, J. K.; et al. 1203 Wong, Chi Song 7245, 9692
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 (Hoppo, Jerry D.) (975) Zamfirescu, Tudor I. 7246, 12498
 Istrătescu, Vasile I.; et al. Bibliography of recent papers
 on fixed point theory (975)
 LaSalle, J. P.; et al. 1203 Collection of articles on
 fixed point theory (975, 976, 5057)
 Machado, Hilton V. (970) Fixed point theory (*976)
 Mauntenberger, T. B.; et al. 7242 Proceedings of the 1970-1971
 (Murphrey, Stephen W.) (975) program in fixed point
 Nadler, Sam B., Jr. 7239 theory at the University
 Ray, Barada K. 9691 of Arizona (*976)
 Reich, Simeon 1204

H99 None of the above, but in this section

Boško, Jovanović; et al. (9157) Enes, Udovičić; et al. (9157)

55-XX ALGEBRAIC TOPOLOGY

-02 Advanced exposition (research surveys, etc.)

Toda, Hiroshi 5045

-03 Historical

Lefschetz, Solomon 5046

-06 Collections of papers; proceedings of conferences

(Genea, Tudor) *7249 (Segal, Graeme) *5047
 (Hilton, Peter J.) *7249 Advanced Study Institute on
 (Ivanov, A. A.) (*9725) Algebraic Topology, 1970
 *7247, *7248

Algebraic topology

*5047, *7247-7249
 Battelle Seattle Research
 Center Symposium on
 Algebraic Topology *7249
 New developments in topology
 *5047
 Proceedings of the Advanced
 Study Institute on Algebraic
 Topology (1970) *7247, *7248

55Axx Low-dimensional topology (See also 57Axx.)

A05 Fundamental group, presentations, free differential
calculus [See also 20E40.]

Chang, Bai Ching 12499 Gregorac, R. J.; et al. 7251
 Choo, Koo Guan (2222) Heil, Wolfgang (3054)
 Doyle, P. H. 3032 Jaco, William; et al. 1207
 Evans, Benny; et al. 1207 Rudjak, Ju. B. 12500
 Feustel, C. D. 7250 Swarup, G. Ananda 7252
 Feustel, C. D.; et al. 7251 Zieschang, Heiner 7255

A10 Covering spaces, branched coverings

Doyle, P. H. 7253 Moszyńska, M. (4994)
 Fox, Ralph H. 9694 Reddy, William L.; et al. 7254
 Hemmingsen, Erik; et al. 7254 Tollefson, Jeffrey L. 5081

A20 Two-dimensional complexes

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A25 Knots and links [For the high-dimensional
case, see 57C45.]

Borsuk, Karol 1154 González Acuña, Francisco J. 3033
 ČKlugkream, G. 9695 Outiérrez, M. A. 1209, 1210, 9696
 Feustel, C. D. 1208 Hafer, Eberhard 12502
 (Fox, R. H.) 9697 Levinson, H. 3034
 Fox, Ralph H. 5048 Reynier, Steven W. 9697
 Goldberg, Charles H. 12501 Summers, D. W. 1211
 Goldsmith, Deborah Louise 7256

A30 Wild knots and surfaces, etc.

Harrold, O. G., Jr. 1212 McPherson, James M.; et al.
 Hemion, Geoffrey; et al. 9698 Sandrakova, E. V. 5050
 McPherson, James M. 5049

A35 Dehn's Lemma, sphere theorem, loop theorem,
asphericity

Dyer, Eldon; et al. 5051 Vasquez, A. T.; et al. 5051

A40 Characterisations of E^3 and S^3 (Poincaré conjecture)

Fox, Ralph H. (9694) Ikeda, Hiroshi (5078)

55Bxx Homology and cohomology theories

Collection of articles on
homology theory *9693 Homology theory *9693

B05 Czech types

Kuperberg, W. 7257 Overton, R. H. (1158)

B10 Singular theory

Hoffman, Peter; et al. 9699 Porter, Gerald J.; et al. 9699
 Kurnik, Zdravko; et al. 1018 (Succi, F.) 9700
 Martinelli, Enzo 7258, *9700

B15 K-theory [For algebraic K-theory, see 18F25.]

Araki, Shōrō; et al. 5052 Sigrist, François; et al.
 Conde, Antonio (5092) 5070, 5071
 Fujii, Kensei 12503 Smith, Larry 1213
 Fujii, Michikazu; et al. 5053 Snaith, V. P. (5059)
 Held, R. P.; et al. (5110) Suter, Ulrich; et al.
 Hodgkin, Luke 9701 (5070, 5071, 5110)
 Kudo, Yoshimitsu 7259 Yasui, Teruko; et al. 5053
 Minami, Haruo (1246) Yoshimura, Zen-ichi; et al. 5052
 Naylor, C. M. 5054 Symposia Mathematica,
 Pitt, David (5058) Vol. XI 12504
 Sigrist, François 12504

B20 Generalised (extraordinary) homology and
cohomology theories, spectra

Deleau, Aristide; et al. 12505 Nakagaki, Minoru (12553)
 Hilton, Peter; et al. 12505 Ōshima, Hideaki; et al. 9704b
 Johnson, David Copeland 1214, 12506 Peterson, F. P. (7306)
 Johnson, David Copeland; et al. (12576) Wilson, W. Stephen 5055
 Wilson, W. Stephen; et al. (12576)

B20 *Continued*

- Wolff, Gerhard 9702 Algebraic topology (Proc.
 Würgler, Urs 9703 Sympos. Pure Math.,
 Yoshimura, Zen-ichi 9704a Vol. XXII, Univ. Wisconsin,
 Yoshimura, Zen-ichi; et al. Madison, Wis., 1970 (7306)
 9704b

B25 *Homology with local coefficients, equivariant cohomology*

- Vasekaran, C. (9722)

B30 *Sheaf cohomology [See also 18F20, 32C35, 32L10.]*

- Bourgin, D. G. 1215 Tallini, Giuseppe 7261
 Namiooka, I. 7260

B35 *Other homology theories*

- Baladze, D. O. 12507 Collection of articles on
 Bykov, V. M. 7262 homology theory 12507
 Inasaridze, H. M. 5056

B40 *Axioms for homology theory and uniqueness theorems*

- Kochman, Stanley O. (9721) Lawson, Jimmie D. 9705

B45 *Products and intersections*

- Ishikawa, Nobuhiro 1216

55Cxx *Classical topics [For the topology of Euclidean spaces and manifolds, see 57A05, 57A10, 57A15.]*C20 *Fixed points and coincidences [See also 54H25.]*

- Bourgin, D. G. (2990) Okumura, Masafumi; et al. 12433
 Brooks, Robin 9706 Powers, Michael J. 12508
 (Brown, Robert F.) (975) (Scholz, U. Kurt) (975)
 Cohen, Fred; et al. 9707 (Thomas, James W.) (975)
 Connett, J. E. 1217 Thompson, Richard B. 5057
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 Górniewicz, L. 3036 Collection of articles on
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 Ludden, Gerald D.; et al. 12433 (975), 5057, (7294)
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C25 *Degrees*

- Ludden, Gerald D.; et al. (12433) Shephardson, C. B. 5058
 Okumura, Masafumi; et al. (12433) Snaith, V. P. 5059

C35 *Finite groups of transformations (Smith theory)*

- Bredon, Glen E. 9708 Nakaoka, Minoru; et al. 1218
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 Israilovic, Ja. A. 3037 Taniguchi, Takeshi 7263
 Joshi, Kapil D. 5060 Tomter, Per 12510
 Munkholm, Hans J.; et al. 1218 Vranceanu, G. 1219

C99 *None of the above, but in this section*

- Hamburg, Ileana (11530) Sperner, Emanuel (10825)

55Dxx *Homotopy theory [For simple homotopy type, see 57C10.]*

- Bauer, Friedrich-Wilhelm 7264

D05 *Homotopy extension properties, cofibrations*

- Cohen, Joel M. 7265 Proceedings of the Advanced
 Dold, Albrecht 12511 Study Institute on Alge-
 Lillig, Joachim 12512 braic Topology (1970),
 Mertens, Jens-Uwe 3038 Vol. I 12511

D10 *Homotopy equivalences*

- Egger, M. H. 7267 Smallen, David L. (7272)
 Farrell, F. T.; et al. (12545) Taylor, L. R.; et al. (12545)
 Schellenberg, Björn 3039, 5062 Wagoner, J. B.; et al. (12545)

D15 *Classification of homotopy type*

- Dror, E. 7268 Vogt, Rainer M. 9709
 Johnson, F. E. A. 12539

D20 *Eilenberg-MacLane spaces*

- Johnson, F. E. A. (12539) Pedersen, Erik Kjaer; et al. (3050)
 Kristensen, Leif; et al. (3050)

D35 *Loop spaces*

- Becker, J. C.; et al. 1220 Schults, R. E.; et al. 1220
 Ewing, John 3040 Segal, Graeme 9710
 Kochman, Stanley O. (9721) Wilkerson, Clarence (3051)
 Nomura, Yasutoshi 1221

D40 *Suspensions*

- Rutter, John W. (9713)

D45 *H-spaces and duals*

- Dai, Kai K. 12513 Nishida, Goro; et al. 12514
 Gilbert, W. J. 1222 Park, Kisoo 3041
 Lee, Ming Jung 9711 Schultz, R. E.; et al. 1220
 Malraison, Pierre J., Jr. 7269 Toda, Hiroshi; et al. 12514
 Mimura, Mamoru; et al. 12514

D99 *None of the above, but in this section*

- Alder, Michael D. 12515 Vogt, R. M. 12516
 Hilton, Peter; et al. 5063 Proceedings of the Interna-
 Mardesic, Sibe (2988) tional Symposium on
 Mislin, Guido; et al. 5063 Topology and its Applica-
 Roitberg, Joseph; et al. 5063 tions (Budva, 1972) 12516
 Spieß, S. (12465)

55Exx *Homotopy groups*E05 *Homotopy groups, general; sets of homotopy classes*

- Egger, M. H. 5064 Lee, Jong P. (7307)
 Eyrard, Marcel (2221) Moszyńska, M. 1224
 Folkman, Jon 1223 Quigley, J. Brendan 9712
 Gray, Brayton 12517 Zieschang, Heiner (7255)
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E10 *Stable homotopy groups*

- Barratt, M. G. 3043 Algebraic topology (Proc. Sym-
 Burlet, Oscar 12518 pos. Pure Math., Vol. XXII,
 Univ. Wisconsin, Madison,
 Wis., 1970) 3043

E15 *Whitehead products and generalizations*

- Allday, Christopher 12519 Harper, John R. 12521
 Baues, Hans Joachim 5065, 12520 Rutter, John W. 9713

E30 *Homotopy groups of triads, n-ads*

- Millett, Kenneth C. 5066

E35 *Operations in homotopy groups*

- Milgram, R. James 1225 Algebraic topology (Proc. Sym-
 pos. Pure Math., Vol. XXII,
 Univ. Wisconsin, Madison,
 Wis., 1970) 1225

E45 *Stable homotopy of spheres*

- Becker, J. C.; et al. (1220) Zahler, Raphael 3044
 Lundell, Albert T. 5073 Algebraic topology (Proc. Sym-
 pos. Pure Math., Vol. XXII,
 Univ. Wisconsin, Madison,
 Wis., 1970) (1245)
 Mahowald, M. E. (1245)
 Oka, Shichirō 1226
 Schults, R. E.; et al. (1220)

E50 *The J-morphism*

- Clough, Robert R.; et al. 5067 Sigrist, François (12504)
 Green, Paul S.; et al. 5068 Sjerpe, Denis; et al. 5069
 Held, René, P.; et al. 5069 Stasheff, James D.; et al. 5067
 Holzager, Richard A.; et al. 5068 Symposia Mathematica, Vol. XI
 1227 (12504)

55Fxx *Fiber spaces and bundles [See also 18F15.]*F05 *Fiber spaces*

- Becker, James C.; et al. 1228 Larmore, L. L.; et al. (7277)
 Braun, Louis J. 3045 Malraison, Pierre J., Jr. 9714
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 Egger, M. H. (7267) Pop, I. 12522
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F10 *Fiber bundles*

- Breitsprecher, Siegfried (2890) Schafer, James A. 3046
 Fiby, Rudolf 1229 Sigrist, François; et al. 5070, 5071
 Gerencsér, László 1230 Sluhsev, V. V.; et al. 7271
 Meyer, Werner 9715 Sulanke, Rolf (9601)
 Obkdeanu, Virgil 7270 Suter, Ulrich; et al. 5070, 5071
 Ščerbakov, R. N.; et al. 7271

F15 Classification

- Patterson, Richard R. (11252) Stöcker, Ralph 12523
 Smallen, David L. 7272

F20 Spectral sequences and homology of fiber spaces
[See also 55Hxx.]

- Chang, Theodore; et al. (12582) Rešetnikov, V. N. 1231
 Cohen, Joel M. 7266 Skjelbred, Tor; et al. (12582)
 Heller, Alex (12585)

F25 Sphere bundles and vector space bundles

- Moran, Daniel A. 9716 Symposia Mathematica, Vol. XI (12504)
 Ravenel, Douglas C. 5072
 Sigrist, François (12504)

F35 Classifying spaces of groups and H-spaces

- Gottlieb, Daniel Henry 9717 Piccinini, Renzo; et al. 9718
 Lehmann, Daniel; et al. 9718

F40 Homology of classifying spaces, characteristic classes

- Oniščik, A. L. 3047

F45 Homology and homotopy of BO and BU ; Bott periodicity

- Adams, J. F. 7274 Smith, Larry 7273
 Kamata, Masayoshi 1232 Comptes Rendus du K-Colloque,
 Kochman, Stanley O. 9719 Deuxième 12524
 Ruiz, Carlos Alfredo 12524

F50 Stable classes of vector space bundles, K-theory
[For algebraic K-theory, see 18F25.]

- Karoubi, Max 5074 Collection of articles dedi-
 Manturov, O. V. 3048 cated to Shigeo Sasaki on
 Uchida, Fuichi 7275 his sixtieth birthday 7275

F65 Generalizations of fiber spaces and bundles

- Kireitov, V. R. 12525 Matuzevičius, A. 3049

55Gxx Operations and obstructions

G10 Steenrod algebra

- Anderson, Donald W.; et al. 12526 Peterson, Franklin P.; et al. 12527
 Davis, Donald M. 7276 Symposium on Algebraic
 Davis, Donald W.; et al. 12526 Topology (Battelle Seattle
 Kristensen, Leif; et al. 3050 Res. Center, Seattle, Wash.,
 Moore, John C.; et al. 12527 1971) 12527
 Pedersen, Erik Kjaer; et al. 3050

G15 Symmetric products, cyclic products

- Ucci, Jack 9720

G20 Secondary and higher cohomology operations

- Gitler, S.; et al. 12528 Zabrodsky, Alexander 1234
 Kraines, David 1233, 9723 Zahler, Raphael (3044)
 Mahovald, M. E. (1245) Algebraic topology (Proc.
 Milgram, R. J.; et al. 12528 Sympos. Pure Math., Vol.
 Ravenel, Douglas C. (5072) XXII, Univ. Wisconsin,
 Madison, Wis., 1970 (1245)

G25 K-theory operations and generalized cohomology operations

- Landweber, Peter S. 1235 Proceedings of the Interna-
 Wilkerson, Clarence 3051 tional Symposium on Topology
 Zdravkovska, Smilka 12529 and its Applications (Budva,
 1972) 12529

G30 Massey products

- Davis, Donald M.; et al. (7279) Smith, Victor P.; et al. (7279)
 Kochman, Stanley O. 9721

G35 Obstruction theory

- Vasekaran, C. 9722

G36 Extension and compression of mappings

- Larmore, L. L.; et al. 7277 Thomas, E.; et al. 7277

G40 Sectioning fiber spaces and bundles

- Moran, Daniel A. 9716 Symposia Mathematica, Vol. XI (12504)
 Scheerer, H. (4191)
 Sigrist, François (12504)
 Van Eps, John 1236

G45 Postnikov systems, k-invariants

- Cooper, Benjamin G. 5075 Kraines, David (1233), 9723

G99 None of the above, but in this section

- Kochman, Stanley O. (9719)

55Hxx Spectral sequences

H05 General

- Araki, Shōrō; et al. 5076 Symposium on Algebraic Topol-
 Dennett, John Roy 1237 ogy (Battelle Seattle Res.
 Moore, John C. 12530 Center, Seattle, Wash.,
 Skordev, G. S. 7278 1971) 12530
 Yosimura, Zen-ichi; et al. 5076

H15 Adams spectral sequences

- Bousfield, A. K.; et al. 5077 Algebraic topology (Proc.
 Davis, Donald M.; et al. 7279 Sympos. Pure Math., Vol. XXII,
 Kan, D. M.; et al. 5077 Univ. Wisconsin, Madison,
 Smith, Victor P.; et al. 7279 Wis., 1970) 5077

H20 Eilenberg-Moore spectral sequences

- Smith, Larry 3052 Algebraic topology (Proc.
 Sympos. Pure Math., Vol. XXII,
 Univ. Wisconsin, Madison,
 Wis., 1970) 3052

55Jxx Applied homological algebra (See also 18Gxx.)

J10 Simplicial complexes

- Barratt, M. G. (3043) Algebraic topology (Proc.
 Lee, Ming Jung 12531 Sympos. Pure Math., Vol. XXII,
 Univ. Wisconsin, Madison,
 Wis., 1970) (3043)

J15 Chain complexes

- Mertens, Jens-Uwe (3038)

J20 Universal coefficient theorems, Bookstein operator

- Deleanu, Aristide; et al. 12532 Proceedings of the Advanced
 Hilton, Peter; et al. 12532 Study Institute on Algebraic
 Topology (1970), Vol. I 12532

57—XX MANIFOLDS AND CELL COMPLEXES (For
complex manifolds, see 32C10.)-04 Explicit machine computation and programs (not the
theory of computation or programming)

- Mylopoulos, J.; et al. 10230 Tourlakis, G.; et al. 10230

-06 Collections of papers; proceedings of conferences

- (Cerv, J.) *9724 International Conference on
 (Glasser, G.) *9724 Manifolds and Related Topics
 (Godbillon, C.) *9724 in Topology, Tokyo, 1973
 (Ivanov, A. A.) *9725
 (Ku, H. T.) *7281, *7282 Manifolds *7280
 (Mann, L. N.) *7281, *7282 Manifolds and related topics
 (Montgomery, Deane) *7281, *7282 in topology *7283
 (Sicks, J. L.) *7281, *7282 Proceedings of the Conference
 (Su, J. C.) *7281, *7282 on Compact Transformation
 Colloque International sur Groups, Second, Part I *7281
 l'Analyse et la Topologie Proceedings of the Conference
 Différentielle *9724 on Compact Transformation
 Colloques Internationaux du Groups, Second, Part II *7282
 Centre National de la Proceedings R.I.M.S. Symposium,
 Recherche Scientifique, Kyoto University, 1972 *7280
 No. 210 *9724 Report on the International
 Compact transformation groups Conference on Manifolds and
 *7281, *7282 Related Topics in Topology,
 Conference on Compact Trans- Tokyo, 1973 *7283
 formation Groups, Second Studies in topology *9725
 (1971) *7281, *7282 Topologie différentielle *9724
 Geometry of manifolds (Proc. Topology *9725
 Sympos., R.I.M.S., Kyoto Transformation groups *7281, *7282
 Univ., Kyoto, 1972) *7280

57Axx Topological manifolds

A05 Topology of E_2 , 2-manifolds

- Baldon, John D. (2976) Ikeda, Hiroshi 5078, 12533

A10 Topology of E_3 , 3-manifolds [See also 55Axx.]

- Boyd, W. S.; et al. (3055) Cannon, J. W. (7289), 12534
 Brown, Marianne S. 9726 Epstein, D. B. A.; et al. 5079

A10 *Continued*

- Feustel, C. D.; et al. (7251) Roeling, Lloyd G. 9727
 González Acuña, Francisco J. (3033) Scott, G. P. 5080
 Gregorac, R. J.; et al. (7251) Sikkema, Carl D.; et al. 5079
 Harrold, O. G. 7284 Tollefson, Jeffrey L. 12535
 Heil, Wolfgang 3054 Tucker, T. W. 12537
 Kinoshita, Shin'ichi; et al. Woodruff, Edythe P. 7285
 12535 Wright, A. H.; et al. (3055)
 Kirkor, A. 12536 Wright, Perrin (9730)

A15 *Topology of E_n , n -manifolds ($3 < n < \infty$)*

- Brakes, W. R. 12538 Harsheim, Egbert 7287
 Bruggesser, H.; et al. 7286 Mani, P.; et al. 7286
 Bryant, J. L. 3053 Moran, D. A. 5082
 Doyle, P. H. (7253) Rosen, Ronald H. (7290)
 Eaton, W. T. 1238 Smith, Brian J. 7288

A17 *Topology of topological vector spaces*

- Riley, Charles A. 1239

A20 *Topology of infinite-dimensional manifolds [See also 58Bxx.]*

- Chapman, T. A. 5083 Wong, Raymond Y. T. (3073)
 Kroonenberg, Helly 12540

A30 *Engulfing*

- Bryant, J. L. (3053)

A35 *Imbeddings and immersions*

- Ball, B. J.; et al. (7227) Harrold, O. G. (7284)
 Cannon, J. W. 7289 Kato, Mitsuyoshi (3057)
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- Marx, Morris L. 12543

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- Asada, Akira (3075)

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- Bredon, Glen E. (9708) Frank, David (7301)
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- Browder, William 5087

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- (Wall, C. T. C.) *5091 Singularities *5091
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- Kato, Mitsuyoshi (3057) Weller, Glenn P. 12551

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- Richardson, R. W., Jr. 3070

E25 *Groups acting on specific manifolds*

- Halder, Heinz-Richard (3026)
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E30 *Discontinuous groups of transformations*

- Taniguchi, Takeshi (7263)

E99 *None of the above, but in this section*

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- Minami, Haruo (1246)
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- (Peixoto, M. M.) *1255
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- Cairns, Stewart B.; et al. 9748
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- Sussmann, Héctor J. 9749

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- Buck, Françoise 1257
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- Reimann, Hans Martin 5112

A15 Exterior differential systems (Cartan theory) [For variational problems, see 49F05.]

- Dezin, A. A. (6642)
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- All-Union Symposium on Selected Questions of Partial Differential Equations (Priklbrus, 1972) (6642)
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- Kijowski, Jerzy 12587
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- Bierstone, Edward 1258
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A99 None of the above, but in this section

- Osborn, Howard (12550)
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- Chapman, T. A. 1259
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- Maxim, L. 9751
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B20 Riemannian, Finsler, and other geometric structures

- de Andrade, Rubens Leão 9752
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- Bejancu, Aurel 5114, (11394)
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- Alexander, Stephanie; et al. (7158)
- Bishop, R. L.; et al. (7158)

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- Fučík, Svatopluk; et al. 3074
Necas, Jindřich; et al. 3074
- Souček, Jiří; et al. 3074
Souček, Vladimír; et al. 3074

C20 Differentiation theory (Gâteaux, Fréchet, etc.)

- Andonie, Olimpia Cristina (9388)
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C25 Differentiable maps and singularities

- Arnol'd, V. I. (2431)
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C99 None of the above, but in this section

- Anada, Akira 3075
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- Imbedding theorems and their applications (Proc. Sympos., Baku, 1966) (859)

58Dxx Spaces and manifolds of mappings**D05 Groups of diffeomorphisms and homeomorphisms as manifolds [See also 22Exx, 57E05.]**

- Edmonds, Allan L. (9746)
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- Gramain, André 5116
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- Hamstrom, Mary-Elizabeth (12581)
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- Uhlenbeck, K. 12592
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- Cassidy, Charles (2754)
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- Omori, Hideki; et al. (7308)

58Exx Critical point theory [For the finite dimensional case, see 57D70; for variational problems, see 49F15.]**E05 Abstract theory (More theory, Ljusternik-Schnirelman theory, etc.)**

- Ambrosotti, Antonio (9103)
Daniljuk, I. I. (47055)
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E15 Application to extremal problems in several variables

- Gawedski, K. (4891)
- Stebe, Peter F. 12595

E99 None of the above, but in this section

- Buonamano, V.; et al. 12596
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F15 Hyperbolic structures (expanding maps, Anosov systems, etc.)

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Belickiy, G. R.	9770	Sotomayor, Jorge	12604
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Cherning, W. C.	5124	Dynamical systems (Salvador, 1971)	9772, 12604, 12608
Il'jasenko, Ju. S.	12607	Proceedings of the International Conference on Nonlinear Oscillations, Fifth (Kiev, 1969). Vol. 2	
Katok, A. B.	1270, 9771		
Ladis, N. N.	(637)		
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Peixoto, M. M.	12608		
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58Gxx Differential operators on manifolds

005 Elliptic complexes [See also 35N1.5]

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Gilkey, Peter B.	12609	Partial differential equations (Proc. Sympos. Pure Math., Vol. XXIII)	(11805)
Kohn, J. J.	(727)		
Kuranishi, Masatake	5125		
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(Brown, Robert F.)	(975)	Collection of articles on fixed point theory	(975, *976)
Gilkey, Peter B.	3081	Fixed point theory	(*976)
(Hopponen, Jerry D.)	(975)	Proceedings of the 1970-1971 program in fixed point theory at the University of Arizona	(*976)
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Rofberg, Ja. A.; et al.	(11761)		
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60-XX PROBABILITY THEORY AND STOCHASTIC PROCESSES (For additional applications, see 10Kxx, 42A36, 62-XX, 90-XX, 92-XX, 93-XX, 94-XX.)

-01 Elementary exposition (collegiate level)

Daboni, Luciano	(*3144)	Ross, Sheldon M.	*7315
Freudenthal, Hans	*1273	Schuster, E. F.	9780
Maibaum, Gert	*12614		

-02 Advanced exposition (research surveys, etc.)

Grenander, Ulf	7316	Theodorescu, R.; et al.	9781
Hengartner, W.; et al.	*9781		

-06 Collections of papers; proceedings of conferences

(Dall'Aglio, Giorgio)	*9783	Problems in the theory of probability distributions	*1274
(Košarik, Jaroslav)	(*10617)		
(Krishnaiah, Paruchuri R.)	(*1350)	Proceedings of International Symposium Multivariate Analysis, Third	(*1350)
(Linnik, Ju. V.)	*1274, (*7424)	Proceedings of the Steklov Institute of Mathematics, No. 111 (1970)	(*7424)
(Pomplj, Giuseppe)	*9783	Random processes (*10617), *12615	
(Spiridonov, S. E.)	*7317	Random processes and statistical inference, *1275, *9782	
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- (Lewis, Peter A. W.) *10008
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 Bibliography: Automata and computing systems (*5424)
 Computing systems (*5424)
 Formale Sprache (*7643)
 Logique, automatique, informatique (*5811)
 Mathematisches Forschungsinstitut, Oberwolfach, Berichte, Heft 3 (*7643)
 Optimization. Operations research. Bionics 13516
 Present state of research in the field of computing media (*5424), 8144, 8145
 Problems of statistical optimization (Proc. Fifth All-Union Seminar, Tashkent, 1968) 10713, 10714
 Proceedings of the All-Union Conference on Automatic Control—Engineering Cybernetics, Fourth (Tbilisi, 1968), Vol. 3 8137
 The programmed method of control, No. 2 10726
 Studies in the theory of adaptive systems (*5440)
 Symposium on Information Theory (Dubna, 1969) 5742

- Starke, P. H.; et al. 8150
 Starke, Peter H. 1834
 Tan, Choon Peng 3655
 Tanaka, Kokichi; et al. 10733, 13535
 Thiele, H.; et al. 8150
 Toyoda, Junichi; et al. 10733, 13535
 Tsuji, Hidekazu; et al. 10734
 Turakainen, Paavo 8151
 Valah, V. Ja.; et al. 10734
 Automatentheorie und formale Sprachen (Bericht Tagung Math. Forschungsinst., Oberwolfach, 1969) 8146, 8150
 Computer technology and questions of cybernetics, No. 8 13529
 Mathematical logic, theory of algorithms and theory of sets 10730
 Probabilistic automata and their application *5745, 13528
 Probabilistic methods and cybernetics. No. 9 3654
 Proceedings of the All-Union Conference on Automatic Control—Engineering Cybernetics, Fourth (Tbilisi, 1968), Vol. 3 8151

ABBREVIATIONS OF NAMES OF JOURNALS

This list gives the form of references used in MATHEMATICAL REVIEWS and the complete title; the place of publication and other pertinent information are given in parentheses when desirable for clarity. An asterisk indicates that the journal has not previously been listed.

Abacus. Abacus. The Journal of the Mathematical Association of Nigeria. (Ibadan)

Abh. Akad. Wiss. Göttingen Math.-Phys. Kl. Abhandlungen der Akademie der Wissenschaften in Göttingen. Mathematisch-Physikalische Klasse. (Göttingen)

Abh. Braunschweig. Wiss. Gesellsch. Abhandlungen der Braunschweigischen Wissenschaftlichen Gesellschaft. (Braunschweig)

Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech. Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin. Klasse für Mathematik, Physik und Technik. (Berlin)

Abh. Math. Sem. Univ. Hamburg. Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg. (Hamburg)

Abh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl. Abhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Leipzig)

Ablauf- und Planungsforschung. Ablauf- und Planungsforschung. Organ des AKOR-der Gesellschaft für Operations Research in Wirtschaft und Verwaltung. (Munich)

Abstracts Bulgarian Sci. Lit. Math. Phys. Astronom. Geophys. Geodes. Bulgarian Academy of Sciences. Centre of Scientific Information and Documentation. Abstracts of Bulgarian Scientific Literature. Mathematics, Physics, Astronomy, Geophysics, Geodesy. (Sofia)

Acad. Roy. Belg. Bull. Cl. Sci. Académie Royale de Belgique. Bulletin de la Classe des Sciences. Koninklijke Belgische Academie. Mededelingen van de Klasse der Wetenschappen. (Brussels)

Acad. Roy. Belg. Cl. Sci. Mém. Coll. in-8°. Académie Royale de Belgique. Classe des Sciences. Mémoires. Collection in-8°. Koninklijke Belgische Academie. Klasse der Wetenschappen. Verhandelingen. Verzameling in-8°. (Brussels)

Acad. Serbe Sci. Arts Glas. Académie Serbe des Sciences et des Arts. Glas. Classe des Sciences Mathématiques et Naturelles. Nouvelle Série. (Belgrade)

Accad. Naz. Sci. Lett. Arti Modena Atti Mem. Accademia Nazionale di Scienze Lettere e Arti. Modena. Atti e Memorie. (Modena)

Acta Acad. Abo. Ser. B. Acta Academiae Aboensis. Ser. B. Mathematica et Physica. Matematik-Naturvetenskap-Teknik. (Åbo = Turku)

Acta Acust. Sinica. Acta Acustica Sinica. (Peking)

Acta Arith. Polska Akademia Nauk. Instytut Matematyczny. Acta Arithmetica. (Warsaw)

Acta Astronom. Sinica. Acta Astronomica Sinica. (Peking)

Acta Ci. Compostelana. Acta Científica Compostelana. (Santiago de Compostela)

Acta Ci. Venezolana. Acta Científica Venezolana. Asociación Venezolana para el Avance de la Ciencia. (Caracas)

Acta Cybernet. Acta Cybernetica. (Szeged)

Acta Fac. Rerum Natur. Univ. Comenianae. Math. Acta Facultatis Rerum Naturalium Universitatis Comenianae. Mathematica. (Bratislava)

Acta Informat. Acta Informatica. (Berlin)

Acta Math. Acta Mathematica. (Uppsala)

Acta Math. Acad. Sci. Hungar. Acta Mathematica Academiae Scientiarum Hungaricae. (Budapest)

Acta Math. Sinica. Acta Mathematica Sinica. (Peking) (Translated as: *Chinese Math.*—Acta)

Acta Mech. Acta Mechanica. (Vienna)

Acta Mech. Sinica (New York). Acta Mechanica Sinica. (New York) (Translation of *Acta Mech. Sinica (Peking)*)

Acta Mech. Sinica (Peking). Acta Mechanica Sinica. (Peking) (Translated as: *Acta Mech. Sinica (New York)*)

Acta Mexicana Ci. Tecn. Instituto Politécnico Nacional. Acta Mexicana de Ciencia y Tecnología. (Mexico City)

Acta Philos. Fenn. Acta Philosophica Fennica. (Helsinki)

Acta Phys. Acad. Sci. Hungar. Acta Physica Academiae Scientiarum Hungaricae. (Budapest)

Acta Phys. Austriaca. Acta Physica Austriaca. (Vienna)

Acta Phys. Polon. A. Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. A. (Warsaw)

Acta Phys. Polon. B. Polska Akademia Nauk. Instytut Fizyki. Acta Physica Polonica. B. (Warsaw)

Acta Phys. Sinica. Acta Physica Sinica. (Peking) (Translated as: *Chinese J. Phys.* (Peking))

Acta Phys. Slovaca. Acta Physica Slovaca. (Bratislava)

Acta Polytech. Scand. Math. and Comput. Mach. Ser. Acta Polytechnica Scandinavica. Mathematics and Computing Machinery Series. (Stockholm)

Acta Sci. Math. (Szeged). Acta Universitatis Szegediensis. Acta Scientiarum Mathematicarum. (Szeged)

Acta Sci. Natur. Univ. Pekinensis. Acta Scientiarum Naturalium Universitatis Pekinensis. (Peking)

Acta Sci. Vietnam. Acta Scientiarum Vietnamicarum. Sectio Scientiarum Mathematicarum et Physicarum. (Hanoi)

Acta Tech. Acad. Sci. Hungar. Acta Technica Academiae Scientiarum Hungaricae. (Budapest)

Acta Tech. ČSAV. Acta Technica. Československá Akademie Věd. (Prague)

Acta Univ. Carolinae—Math. et Phys. Acta Universitatis Carolinae. Mathematica et Physica. (Prague)

Acta Univ. Oulu. Ser. A Sci. Rerum Natur. Math. Acta Universitatis Ouluensis. Series A. Scientiae Rerum Naturalium. Mathematica. (Oulu)

Acta Univ. Tamper. Ser. A. Acta Universitatis Tampereensis. Series A. (Helsinki)

Acta Univ. Wratislav. Acta Universitatis Wratislaviensis. (Wrocław)

Actualités Sci. Indust. Actualités Scientifiques et Industrielles. (Paris)

Advances in Appl. Probability. Advances in Applied Probability. (Sheffield)

Advances in Math. Advances in Mathematics. (New York)

Aequationes Math. Aequationes Mathematicae. (Basel-Waterloo)

AEÜ—Arch. Elektron. Übertragungstech. Electron. Commun. AEÜ. Archiv für Elektronik und Übertragungstechnik. Electronics and Communication. (Stuttgart)

AIAA J. AIAA Journal. American Institute of Aeronautics and Astronautics. (Easton, Pa.)

Ajatua. Ajatus. Suomen Filosofisen Yhdistyksen Vuosikirja. Yearbook of the Philosophical Society of Finland. (Helsinki)

- Akad. Nauk Armjan. SSR Dokl. Akademija Nauk Armjanskoi SSR. Doklady. (Erevan)*
- Akad. Nauk Azerbaidžan. SSR Dokl. Akademija Nauk Azerbaidžanskoi SSR. Doklady. (Baku)*
- Akad. Nauk Gruzin. SSR Trudy Tbilis. Mat. Inst. Razmadze. Akademija Nauk Gruzinskoi SSR. Trudy Tbilisskogo Matematičeskogo Instituta im. A. M. Razmadze. (Tbilisi) See Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.*
- Akad. Nauk Kazah. SSR Trudy Astrofiz. Inst. Akademija Nauk Kazahskoi SSR. Trudy Astrofizičeskogo Instituta. (Alma-Ata)*
- Akad. Nauk Kazah. SSR Trudy Inst. Mat. i Meh. Akademija Nauk Kazahskoi SSR. Trudy Instituta Matematiki i Mehaniki. (Alma-Ata)*
- Akad. Nauk SSSR Trudy Jakutsk. Filial. Ser. Fiz. Akademija Nauk SSSR. Trudy Jakutskogo Filiala. Serija Fizičeskaja. (Moscow)*
- Akad. Nauk Uzbek. SSR Trudy Inst. Mat. Akademija Nauk Uzbekskoi SSR. Trudy Instituta Matematiki im. V. I. Romanovskogo. (Tashkent)*
- Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjelj. Prirod. Mat. Nauka. Akademija Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Prirodnih i Matematičkih Nauka. (Sarajevo)*
- Akad. Nauka i Umjet. Bosne i Hercegov. Rad. Odjelj. Tehn. Nauka. Akademija Nauka i Umjetnosti Bosne i Hercegovine. Radovi. Odjeljenje Tehničkih Nauka. (Sarajevo)*
- Akad. Wiss. Lit. Mainz Abh. Math.-Natur. Kl. Akademie der Wissenschaften und der Literatur in Mainz. Abhandlungen der Mathematisch-Naturwissenschaftlichen Klasse. (Wiesbaden)*
- Akust. Ž. Akademija Nauk SSSR. Akustičeskij Žurnal. (Moscow) (Translated as: Soviet Physics Acoust.)*
- Algebra and Logic. Algebra and Logic. (New York) (Translation of Algebra i Logika)*
- Algebra i Logika. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Algebra i Logika. (Novosibirsk) (Translated as: Algebra and Logic)*
- Algebra Universalis. Algebra Universalis. (Basel)*
- Algoritmy i Algoritm. Jazyki. Vyčislitel'nyĭ Centr Akademii Nauk SSSR. Algoritmy i Algoritmicheskie Jazyki. (Moscow)*
- Algoritmy. Algoritmy. Prace Instytutu Maszyn Matematycznych Polakiej Akademii Nauk. (Warsaw)*
- Aligarh Bull. Math. The Aligarh Bulletin of Mathematics. (Aligarh)*
- Allgemein. Statist. Arch. Allgemeines Statistisches Archiv. Organ der Deutschen Statistischen Gesellschaft. (Munich)*
- Alma-Atin. Gos. Ped. Inst. Učen. Zap. Alma-Atinskij Gosudarstvennyĭ Pedagogičeskij Institut im. Abaja. Učenyje Zapiski. (Alma-Ata) (May also appear as: Kazah. Gos. Ped. Inst. Učen. Zap.)*
- Alta Frequenza. Alta Frequenza. Rivista di Elettronica e Telecomunicazioni della Associazione Elettrotecnica ed Elettronica Italiana. (Milan)*
- Amer. J. Math. American Journal of Mathematics. (Baltimore, Md.)*
- Amer. J. Phys. American Journal of Physics. (New York)*
- Amer. Math. Monthly. The American Mathematical Monthly. (Buffalo, N.Y.)*
- Amer. Math. Soc. Transl. American Mathematical Society Translations. (Providence, R.I.)*
- Amer. Statist. The American Statistician. (Washington, D.C.)*
- AMR. Applied Mechanics Reviews. (New York)*
- An. Acad. Brasil. Ci. Anais da Academia Brasileira de Ciências. (Rio de Janeiro)*
- An. Fac. Ci. Univ. Porto. Anais de Faculdade de Ciências. Universidade do Porto. (Porto, Portugal)*
- An. Inst. Mat. Univ. Nac. Autónoma México. Anales del Instituto de Matemáticas. Universidad Nacional Autónoma de México. (Mexico City)*
- An. Ști. Univ. "Al. I. Cuza" Iași Secț. I a Mat. Analele Științifice ale Universității "Al. I. Cuza" din Iași. Seria Nouă. Secțiunea I a Matematică. (Iași)*
- An. Univ. București Acta Logica. Analele Universității București. Acta Logica. (Bucharest)*
- An. Univ. București Fiz. Analele Universității București. Fizică. (Bucharest)*
- An. Univ. București Mat.-Mec. Analele Universității București. Matematică-Mecanică. (Bucharest)*
- An. Univ. Craiova Ser. a IV-a. Anale Universității Craiova. Seria a. IV-a. (Craiova)*
- An. Univ. Timișoara Ser. Ști. Fiz.-Chim. Analele Universității din Timișoara. Seria Științe Fizice-Chimice. (Timișoara)*
- An. Univ. Timișoara Ser. Ști. Mat. Analele Universității din Timișoara. Seria Științe Matematice. (Timișoara)*
- Ann. Acad. Sci. Fenn. Ser. A I. Suomalaisen Tiedakatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. I. Mathematica. (Helsinki)*
- Ann. Acad. Sci. Fenn. Ser. A VI. Suomalaisen Tiedakatemian Toimituksia. Sarja A. Annales Academiæ Scientiarum Fennicæ. Series A. VI. Physica. (Helsinki)*
- Ann. École Nat. Sup. Méc. Nantes. Annales. École Nationale Supérieure de Mécanique. (Nantes)*
- Ann. Fac. Sci. Univ. Toulouse. Annales de la Faculté des Sciences de l'Université de Toulouse pour les Sciences Mathématiques et les Sciences Physiques. (Toulouse)*
- Ann. Human Genetics. Annals of Human Genetics. (London)*
- Ann. I.N.S.E.E. Ministère de l'Économie et des Finances. Institut National de la Statistique et des Études Économiques. Annales de l'I.N.S.E.E. (Paris)*
- Ann. Inst. Fourier (Grenoble). Université de Grenoble. Annales de l'Institut Fourier. (Grenoble)*
- Ann. Inst. H. Poincaré Sect. A. Annales de l'Institut Henri Poincaré. Section A. Physique Théorique. (Paris)*
- Ann. Inst. H. Poincaré Sect. B. Annales de l'Institut Henri Poincaré. Section B. Calcul des Probabilités et Statistique. (Paris)*
- Ann. Inst. Statist. Math. Annals of the Institute of Statistical Mathematics. (Tokyo)*
- Ann. Japan Assoc. Philos. Sci. Annals of the Japan Association for Philosophy of Science. (Tokyo)*
- Ann. Mat. Pura Appl. Annali di Matematica Pura ed Applicata. (Bologna)*
- Ann. Math. Logic. Annals of Mathematical Logic. (Amsterdam)*
- Ann. of Math. Annals of Mathematics. (Princeton, N.J.)*
- Ann. of Sci. Annals of Science. (London)*
- Ann. Physics. Annals of Physics. (New York)*
- Ann. Physik. Annalen der Physik. (Leipzig)*
- Ann. Polon. Math. Polska Akademia Nauk. Annales Polonici Mathematici. (Warsaw)*
- Ann. Probability. The Annals of Probability. (San Francisco, Calif.)*
- Ann. Sci. École Norm. Sup. Annales Scientifiques de l'École Normale Supérieure. (Paris)*
- Ann. Sci. Univ. Besançon Math. Annales Scientifiques de l'Université de Besançon. Mathématiques. (Besançon)*
- Ann. Sci. Univ. Besançon Méc. Phys. Théor. Annales Scientifiques de l'Université de Besançon. Mécanique et Physique Théorique. (Besançon)*

ABBREVIATIONS OF NAMES OF JOURNALS

- Ann. Sci. Univ. Clermont.* Annales Scientifiques de l'Université de Clermont. (Clermont-Ferrand)
- Ann. Scuola Norm. Sup. Pisa.* Annali della Scuola Normale Superiore di Pisa. Scienze Fisiche e Matematiche. (Pisa)
- Ann. Soc. Sci. Bruxelles Sér. I.* Annales de la Société Scientifique de Bruxelles. Série I. Sciences Mathématiques, Astronomiques et Physiques. (Brussels)
- Ann. Statist.* The Annals of Statistics. (San Francisco, Calif.)
- Ann. Télécommun.* Annales des Télécommunications. (Paris)
- Ann. Univ. Ferrara Sez. VII.* Annali dell'Università di Ferrara. Nuovo Serie. Sezione VII. Scienze Matematiche. (Ferrara)
- Ann. Univ. Mariae Curie-Skłodowska Sect. A.* Annales Universitatis Mariae Curie-Skłodowska. Sectio A. Mathematica. (Lublin)
- Ann. Univ. Sarav. Math.-Natur. Fak.* Annales Universitatis Saraviensis. Mathematisch-Naturwissenschaftliche Fakultät. (Berlin)
- Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* Annales Universitatis Scientiarum Budapestinensis de Rolando Eötvös Nominatae. Sectio Mathematica. (Budapest)
- Ann. Univ. Turku. Ser. A I.* Annales Universitatis Turkuensis. Series A. I. Astronomica-Chemica-Physica-Mathematica. (Turku)
- Annuaire Univ. Sofia Fac. Math.* Godišnik na Sofijskija Universitet. Matematički Fakultet. Annuaire de l'Université de Sofia. Faculté de Mathématiques. (Sofia)
- Annuaire Univ. Sofia Fac. Phys.* Godišnik na Sofijskija Universitet. Fizicheski Fakultet. Annuaire de l'Université de Sofia. Faculté de Physique. (Sofia)
- Annual Rep. Fac. Ed. Univ. Iwate.* Annual Report of the Faculty of Education. University of Iwate. (Kakuzanwaki)
- Appl. Mat.* Československá Akademie Věd. Aplikace Matematiky. (Prague)
- Appl. Mech. Rev.* Applied Mechanics Reviews. (New York) (Sometimes abbreviated as *AMR* in the text of *Math. Reviews*)
- Appl. Sci. Res.* Applied Scientific Research. (The Hague)
- Applicable Anal.* Applicable Analysis. An International Journal. (New York)
- Araştırma.* Araştırma. Journal of the Institute for Research in Philosophy, the History of Science, Psychology and Sociology. Faculty of Letters. Ankara University. (Ankara)
- Årbok Univ. Bergen Mat.-Natur. Ser.* Årbok for Universitetet i Bergen. Matematisk-Naturvidenskapelig. Serie. (Bergen)
- Arch. Automat. i Telemekh.* Komitet Automatyki i Cybernetyki Technicznej Polskiej Akademii Nauk. Archiwum Automatyki i Telemekhaniki. (Warsaw)
- Arch. Elek. Übertr.* Archiv für Elektronik und Übertragungstechnik. Electronics and Communication. (Stuttgart) (Continued as: *AEÜ—Arch. Elektron. Übertragungstechn. Electron. Commun.*)
- Arch. Elektrotech.* (Warsaw). Komitet Elektrotechniki. Komitet Elektroniki i Telekomunikacji Polskiej Akademii Nauk. Archiwum Elektrotechniki. (Warsaw)
- Arch. History Exact Sci.* Archive for History of Exact Sciences. (Berlin)
- Arch. Internat. Histoire Sci.* Archives Internationales d'Histoire des Sciences. (Paris)
- Arch. Math. (Basel).* Archiv der Mathematik. Archives of Mathematics. Archives Mathématiques. (Basel)
- Arch. Math. (Brno).* Spisy Přírodovědecké Fakulty University J. E. Purkyně v Brně. Archivum Mathematicum. (Brno)
- Arch. Math. Logik Grundlagenforsch.* Archiv für Mathematische Logik und Grundlagenforschung. (Stuttgart)
- Arch. Mech. (Arch. Mech. Stos.)* Institute of Fundamental Technical Research. Polish Academy of Sciences. Archives of Mechanics (Archiwum Mechaniki Stosowanej). (Warsaw)
- Arch. Rational Mech. Anal.* Archive for Rational Mechanics and Analysis. (Berlin)
- Archimede.* Archimede. Rivista per gli Insegnanti e i Cultori di Matematiche Pure e Applicate. (Florence)
- Ark. Astronom.* Arkiv för Astronomi. (Stockholm)
- Ark. Mat.* Arkiv för Matematik. (Stockholm) (Continued in: *Astronom. and Astrophys.*)
- Arkhimedes.* Arkhimedes. Suomen Fysikkos seura—Finlands Fysikerförening r.y. Suomen Matemaattinen Yhdistys—Finlands Matematiska Förening r.y. (Helsinki)
- Armjan. Gos. Ped. Inst. Sb. Naučn. Trud. Ser. Fiz.-Mat.* Armjanskij Gosudarstvennyj Pedagogičeskij Institut im. H. Abovjana. Sbornik Naučnyh Trudov. Serija Fiziko-Matematičeskaja. (Erevan)
- Arquivo Inst. Gulbenkian Ci. A Estud. Mat. Fis.-Mat.* Arquivo do Instituto Gulbenkian de Ciência. A. Estudos Matemáticos e Físico-Matemáticos. (Lisbon)
- Artificial Intelligence.* Artificial Intelligence. An International Journal. (Amsterdam)
- Assoc. Roy. Actuaire. Belges Bull.* Association Royale des Actuaires Belges. Bulletin. (Brussels)
- Astin Bull.* The Astin Bulletin. Publication of the Astin Section of the Permanent Committee for International Actuarial Congresses. (Amsterdam)
- Astrofizika.* Akademija Nauk Armjanskoi SSR. Astrofizika. (Erevan) (Translated as: *Astrophysics*)
- Astronaut. Acta.* Astronautica Acta. (Vienna)
- Astronom. and Astrophys.* Astronomy and Astrophysics. (Berlin)
- *Astronom. Astrophys. Suppl. Ser.* Astronomy & Astrophysics. Supplement Series. (Lausanne)
- Astronom. J.* The Astronomical Journal. (New Haven, Conn.)
- Astronom. Nachr.* Astronomische Nachrichten. (Berlin)
- Astronom. Ž.* Akademija Nauk SSSR. Astronomičeskij Žurnal. (Moscow) (Translated as: *Soviet Astronom. AJ*)
- Astrophys. and Space Sci.* Astrophysics and Space Science. (Dordrecht)
- Astrophys. J.* The Astrophysical Journal. (Chicago, Ill.)
- Astrophysics.* Astrophysics. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)
- *ATR—Austral. Telecommun. Res.* ATR. Australian Telecommunication Research. (Melbourne)
- Atti Accad. Gioenia Sci. Natur. Catania.* Atti della Accademia Gioenia di Scienze Naturali in Catania. (Catania)
- Atti Accad. Ligure Sci. Lett.* Atti della Accademia Ligure di Scienze e Lettere. (Genoa)
- Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I.* Atti della Accademia Nazionale dei Lincei. Memorie. Classe di Scienze Fisiche, Matematiche e Naturali. Sezione I^a. Matematica, Meccanica, Astronomia, Geodesia e Geofisica. (Rome)
- Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* Atti della Accademia Nazionale dei Lincei. Rendiconti. Classe di Scienze Fisiche, Matematiche e Naturali. (Rome)
- Atti Accad. Sci. Fis. Mat. Napoli.* Atti dell'Accademia delle Scienze Fisiche e Matematiche di Napoli. (Naples)
- Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* Atti della Accademia delle Scienze dell'Istituto di Bologna. Classe di Scienze Fisiche. Rendiconti. (Bologna)
- Atti Accad. Sci. Lett. Arti Palermo Parte I.* Atti della Accademia di Scienze Lettere e Arti di Palermo. Parte Prima. Scienze. (Palermo)
- Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)

- Atti Fond. Giorgio Ronchi Contrib. Ist. Naz. Ottica.* Atti della Fondazione Giorgio Ronchi e Contributi dell'Istituto Nazionale di Ottica. (Florence)
- Atti Sem. Mat. Fis. Univ. Modena.* Atti del Seminario Matematico e Fisico dell'Università di Modena. (Modena)
- Atti Soc. Peloritana Sci. Fis. Mat. Natur.* Atti della Società Peloritana di Scienze Fisiche Matematiche e Naturali. (Messina)
- Austral. Comput. J.* The Australian Computer Society. The Australian Computer Journal. (Chippendale)
- Austral. J. Phys.* Australian Journal of Physics. (Melbourne)
- Austral. J. Sci.* The Australian Journal of Science. (Sydney)
- Austral. J. Statist.* The Australian Journal of Statistics. (Sydney)
- Automat. Control and Computer Sci.* Automatic Control and Computer Sciences. (New York) (Translation of *Avtomat. i Vychisl. Tehn.* (Riga))
- **Automat. Document. and Math. Linguistics.* Automatic Documentation and Mathematical Linguistics. (New York) (Translation of *Nauch.-Tehn. Informaciya (VINITI) Ser. 2. Informacionnye Processy i Sistemy*)
- Automat. Remote Control.* Automation and Remote Control. A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Automatic Control Theory Appl.* Automatic Control Theory and Applications. (Calgary)
- Automatica—J. IFAC.* Automatica. The Journal of IFAC. The International Federation of Automatic Control. (Oxford)
- Avtomat. i Izchisl. Tehn.* Avtomatika i Izchislitel'naya Tehnika. (Sofia)
- Avtomat. i Telemekh.* Akademija Nauk SSSR. Avtomatika i Telemekhanika. (Moscow) (Translated as: *Automat. Remote Control*)
- Avtomat. i Vychisl. Tehn. (Riga).* Akademija Nauk Latvijas SSR. Avtomatika i Vychislitel'naya Tehnika. (Riga) (Translated as: *Automat. Control and Computer Sci.*)
- Avtomatika.* Akademija Nauk Ukrainy RSR. Institut Elektrotehniki. Avtomatika. (Kiev) (Translated as: *Soviet Automat. Control*)
- Avtometriya.* Avtometriya. Akademija Nauk SSSR. Sibirskoe Otdelenie. (Novosibirsk)
- Azerbaidžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk.* Azerbaidžanskij Gosudarstvennyj Universitet im. S. M. Kirova. Učenyje Zapiski. Seriya Fiziko-Matematičeskij Nauk. (Baku)
- Balašov. Gos. Ped. Inst. Učen. Zap.* Balašovskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Balašov)
- Bangabasi College Mag.* Bangabasi College Magazine. (Calcutta)
- Bangabasi Morning College Mag.* Bangabasi Morning College Magazine. (Calcutta)
- Barnaul. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvetšeniya RSFSR. Barnaul'skij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Barnaul)
- Baškir. Gos. Univ. Učen. Zap.* Baškirskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Ufa)
- Bayer. Akad. Wiss. Math.-Natur. Kl. Abh.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Abhandlungen. (Munich)
- Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* Bayerische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. (Munich)
- Beijing Daxue Xuebao Ziran Kexue.* See *Acta Sci. Natur. Univ. Pekinensis.*
- Beiträge Anal.* Beiträge zur Analysis. (Berlin)
- **Beiträge Numer. Math.* Beiträge zur Numerischen Mathematik. (Berlin)
- Bell J. Econom. and Management Sci.* The Bell Journal of Economics and Management Science. (New York)
- Bell System Tech. J.* The Bell System Technical Journal. (New York)
- Biometrics.* Biometrics. Journal of the Biometric Society. (Blackburg, Va.)
- Biometrika.* Biometrika. (London)
- Biometrische Z.* Biometrische Zeitschrift. (Berlin)
- BIT.* See *Nordisk Tidekr. Informationsbehandling (BIT).*
- Biul. Lubel. Towarz. Nauk. Wydział II Mat. Fiz. Chem.* Biuletyn Lubelskiego Towarzystwa Naukowego. Wydział II. Matematyka. Fizyka. Chemia. (Lublin)
- Biul. Wojsk. Akad. Tech.* Biuletyn Wojskowej Akademii Technicznej im. Jarosława Dąbrowskiego. (Warsaw)
- Bjull. Inst. Teoret. Astronom.* Akademija Nauk Sojuza Sovetskijh Socialističeskijh Respublik. Bjulleten' Instituta Teoretičeskoj Astronomii. (Moscow)
- **B'lgar. Akad. Nauk. Izv. Fiz. Inst. s Aneb.* B'lgarska Akademija na Naukite. Izvestija na Fizičeskij Institut s Aneb. (Sofia) (Formerly: *B'lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Fiz. Inst. s Aneb.*)
- **B'lgar. Akad. Nauk. Izv. Inst. Tehn. Kibernet.* B'lgarska Akademija na Naukite. Izvestija na Instituta po Tehničeska Kibernetika. (Sofia) (Formerly: *B'lgar. Akad. Nauk. Otdel. Tehn. Nauk. Izv. Inst. Tehn. Kibernet.*)
- **B'lgar. Akad. Nauk. Izv. Mat. Inst.* B'lgarska Akademija na Naukite. Izvestija na Matematičeskij Institut. (Sofia) (Formerly: *B'lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Mat. Inst.*)
- B'lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Fiz. Inst. s Aneb.* B'lgarska Akademija na Naukite. Otdelenie za Matematičeski i Fizičeski Nauki. Izvestija na Fizičeskij Institut s Aneb. (Sofia) (Continued as: *B'lgar. Akad. Nauk. Izv. Fiz. Inst. s Aneb.*)
- B'lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Mat. Inst.* B'lgarska Akademija na Naukite. Otdelenie za Tehničeski Nauki. Izvestija na Matematičeskij Institut. (Sofia) (Continued as: *B'lgar. Akad. Nauk. Izv. Mat. Inst.*)
- B'lgar. Akad. Nauk. Otdel. Tehn. Nauk. Izv. Inst. Tehn. Kibernet.* B'lgarska Akademija na Naukite. Otdelenie za Tehničeska Kibernetika. (Sofia) (Continued as: *B'lgar. Akad. Nauk. Izv. Inst. Tehn. Kibernet.*)
- Bol. Fac. Ingen. Agrimens. Montevideo.* Boletín de la Facultad de Ingeniería y Agrimensura de Montevideo. (Montevideo) (Continued as: *Bol. Fac. Ingen. Agrimens. Univ. Repúb. Oriental Uruguay*)
- Bol. Fac. Ingen. Agrimens. Univ. Repúb. Oriental Uruguay.* Boletín de la Facultad de Ingeniería y Agrimensura de la Universidad de la República Oriental del Uruguay. (Montevideo) (Formerly: *Bol. Fac. Ingen. Agrimens. Montevideo*)
- Bol. Mat.* Boletín de Matemáticas. (Bogotá)
- Bol. Soc. Brasil. Mat.* Boletim da Sociedade Brasileira de Matemática. (Rio de Janeiro)
- Bol. Soc. Mat. Mexicana.* Boletín de la Sociedad Matemática Mexicana. (Mexico City)
- Bol. Univ. Paraná Inst. Fis.* Boletim da Universidade do Paraná. Conselho de Pesquisas. Instituto de Física. (Paraná)
- Boll. Un. Mat. Ital.* Bollettino della Unione Matematica Italiana. (Bologna)
- Bonn. Math. Schr.* Bonner Mathematische Schriften. (Bonn)
- British J. Hist. Sci.* British Society for the History of Science. British Journal for the History of Science. (London)
- British J. Math. Statist. Psychology.* The British Journal of Mathematical and Statistical Psychology. (London)
- British J. Philos. Sci.* The British Journal for the Philosophy of Science. (Edinburgh)
- Bul. Akad. Štiințe RSS Moldoven.* Buletinul Academiei de Științe a RSS Moldovenești. (Kishinev) Also listed as: *Izv. Akad. Nauk Moldav. SSR.*

Bul. Inst. Politehn. Braşov Ser. A Mec. Buletinul Institutului Politehnic din Braşov. Seria A. Mecanică. (Braşov) (Continued as: *Bul. Univ. Braşov Ser. A Mec. Apl.*)

Bul. Inst. Politehn. Bucureşti. Buletinul Institutului Politehnic Bucureşti. (Bucharest)

Bul. Inst. Politehn. Iaşi. Buletinul Institutului Politehnic din Iaşi. Serie Nouă. (Iaşi)

Bul. Şti. Inst. Politehn. Cluj. Buletinul Ştiinţific al Institutului Politehnic din Cluj. (Cluj)

Bul. Şti. Tehn. Inst. Politehn. Timişoara—Ser. Mat.-Fiz.-Mec. Teoret. Apl. Buletinul Ştiinţific şi Tehnic al Institutului Politehnic Timişoara. Seria Matematică-Fizică-Mecanică Teoretică şi Aplicată. (Timişoara)

Bul. Univ. Braşov Ser. A Mec. Apl. Buletinul Universităţii din Braşov. Seria A. Mecanică Aplicată Construcţii de Masini. (Braşov) (Formerly: *Bul. Inst. Politehn. Braşov Ser. A Mec.*)

**Bul. Univ. Braşov Ser. C Mat. Fiz. Chim. Şti. Natur.* Buletinul Universităţii din Braşov. Seria C. Matematică, Fizică, Chimie, Ştiinţe Naturale. (Braşov)

Bul. Univ. Shtetëror Tiranë. Shk. Nat. Buletin Universiteti Shtetëror i Tiranës Fakulteti i Shkencave të Natyrës. (Tiranë)

Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys. Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Mathématiques, Astronomiques et Physiques. (Warsaw)

Bull. Acad. Polon. Sci. Sér. Sci. Tech. Bulletin de l'Académie Polonaise des Sciences. Série des Sciences Techniques. (Warsaw)

Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math. Bulletin de l'Académie Serbe des Sciences et des Arts. Classe des Sciences Mathématiques et Naturelles. Sciences Mathématiques. (Belgrade)

Bull. Amer. Math. Soc. Bulletin of the American Mathematical Society. (Providence, R.I.)

Bull. Austral. Math. Soc. Bulletin of the Australian Mathematical Society (St. Lucia)

Bull. Calcutta Math. Soc. Bulletin of the Calcutta Mathematical Society. (Calcutta)

**Bull. Central Res. Lab. O.I.T.* Bulletin of the Central Research Laboratory. Osaka Institute of Technology. (Osaka)

Bull. College Sci. (Baghdad). Bulletin of the College of Science. (Baghdad)

Bull. Direction Études Recherches Sér. C Math. Informat. Électricité de France. Bulletin de la Direction des Études et Recherches. Série C. Mathématiques. Informatique. (Grenoble)

Bull. Fac. Ed. Univ. Kagoshima. Bulletin of the Faculty of Education. University of Kagoshima. (Kagoshima)

Bull. Fac. Ed. Utsunomiya Univ. Bulletin of the Faculty of Education. Utsunomiya University. (Utsunomiya)

Bull. Fac. Engrg. Miyazaki Univ. Bulletin of the Faculty of Engineering. Miyazaki University. (Miyazaki)

Bull. Fac. Sci. Ibaraki Univ. Ser. A. Bulletin of the Faculty of Science. Ibaraki University. Series A. Mathematics. (Ibaraki)

Bull. Fukuoka Univ. Ed. III. Bulletin of Fukuoka University of Education. Part III. Natural Sciences. (Fukuoka)

Bull. Géodésique. Bulletin Géodésique. (Paris)

Bull. Inst. Internat. Statist. Bulletin de l'Institut International de Statistique. (The Hague)

Bull. Inst. Math. Acad. Sinica. Bulletin of the Institute of Mathematics. Academia Sinica. (Taipei)

**Bull. JSME.* Bulletin of the Japan Society of Mechanical Engineers. (Tokyo)

Bull. Kyoto Univ. Ed. Ser. B. Bulletin of the Kyoto University of Education. Series B. Mathematics and Natural Science. (Kyoto)

Bull. Kyushu Inst. Tech. Math. Natur. Sci. Bulletin of the Kyushu Institute of Technology. Mathematics, Natural Science. (Tobata)

Bull. London Math. Soc. The Bulletin of the London Mathematical Society. (London)

Bull. Math. Biology. Bulletin of Mathematical Biology. (New York) (Formerly: *Bull. Math. Biophys.*)

Bull. Math. Biophys. The Bulletin of Mathematical Biophysics. (Ann Arbor, Mich.) (Continued as: *Bull. Math. Biology*)

Bull. Math. Soc. Sci. Math. R. S. Roumanie. Bulletin Mathématique de la Société des Sciences Mathématiques de la République Socialiste de Roumanie. (Bucharest)

Bull. Math. Statist. Bulletin of Mathematical Statistics. (Fukuoka)

Bull. Nagoya Inst. Tech. Bulletin of Nagoya Institute of Technology. (Nagoya)

Bull. Nara Univ. Ed. Natur. Sci. Bulletin of Nara University of Education. Natural Science. (Nara)

Bull. Oxford Univ. Inst. Econom. Statist. Bulletin of the Oxford University Institute of Economics and Statistics. (Oxford) (Continued as: *Oxford Bull. Econom. Statist.*)

Bull. Sci. Conseil Acad. RSF Yougoslav. Sect. A. Bulletin Scientifique. Conseil des Académies de la RSF de Yougoslavie. Section A. (Zagreb)

Bull. Sci. Engrg. Res. Lab. Waseda Univ. Bulletin of Science and Engineering Research Laboratory. Waseda University. (Tokyo)

Bull. Sci. Math. Bulletin des Sciences Mathématiques. (Paris)

Bull. Signal. 110. Centre National de la Recherche Scientifique. Bulletin Signalétique 110. Informatique. Automatique. Recherche Opérationnelle. Gestion. (Paris)

Bull. Singapore Math. Soc. Bulletin of the Singapore Mathematical Society. (Singapore)

Bull. Soc. Math. Belg. Bulletin de la Société Mathématique de Belgique. (Brussels)

Bull. Soc. Math. France. Bulletin de la Société Mathématique de France. (Paris)

Bull. Soc. Math. Grèce. Bulletin de la Société Mathématique de Grèce. (Athens)

Bull. Soc. Math. Phys. Macédoine. Bulletin de la Société des Mathématiciens et des Physiciens de la République Populaire de Macédoine. Bilten na Društvo na Matematikarite i Fizikarite od Socialistička Republika Makedonija. (Skopje)

Bull. Soc. Roy. Sci. Liège. Bulletin de la Société Royale des Sciences de Liège. (Liège)

Bull. Soc. Sci. Lettres Lódz. Bulletin de la Société des Sciences et des Lettres de Lódz. (Lódz)

Bull. Tokyo Gakugei Univ. Bulletin of Tokyo Gakugei University. (Tokyo)

Bull. Univ. Osaka Prefecture Ser. A. Bulletin of University of Osaka Prefecture. Series A. Engineering and Natural Sciences. (Osaka)

Bull. Yamagata Univ. Natur. Sci. Bulletin of the Yamagata University. Natural Science. (Yamagata)

C.D.I. Informat. Math. Appl. C.D.I. Informatique et Mathématiques Appliquées. (Paris)

C. R. Acad. Bulgare Sci. Doklady Bolgarskoj Akademii Nauk. Comptes Rendus de l'Académie Bulgare des Sciences. (Sofia)

C. R. Acad. Sci. Paris Sér. A. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries A. (Paris) (Formerly: *C. R. Acad. Sci. Paris Sér. A-B*)

C. R. Acad. Sci. Paris Sér. A-B. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries A et B. (Paris) (Continued as: *C. R. Acad. Sci. Paris Sér. A, C. R. Acad. Sci. Paris Sér. B* and *C. R. Acad. Sci. Paris Vie Académique*)

C. R. Acad. Sci. Paris Sér. B. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Séries B. (Paris) (Formerly: *C. R. Acad. Sci. Paris Sér. A-B*)

C. R. Acad. Sci. Paris Vie Académique. Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Vie Académique. (Paris) (Formerly: *C. R. Acad. Sci. Paris Sér. A-B*)

- Cahiers Centre Études Recherche Opér.* Cahiers du Centre d'Études de Recherche Opérationnelle. (Brussels)
- Cahiers Topologie Géom. Différentielle.* Cahiers de Topologie et Géométrie Différentielle. (Paris)
- Calcolo.* Calcolo. (Rome)
- Calcutta Statist. Assoc. Bull.* Calcutta Statistical Association Bulletin. (Calcutta)
- Canad. J. Math.* Canadian Journal of Mathematics. Journal Canadien de Mathématiques. (Toronto, Ont.)
- Canad. J. Phys.* Canadian Journal of Physics. (Ottawa, Ont.)
- Canad. Math. Bull.* Canadian Mathematical Bulletin. Bulletin Canadien de Mathématiques. (Toronto, Ont.)
- Časopis Pěst. Mat.* Československá Akademie Věd. Časopis pro Pěstování Matematiky. (Prague)
- Čečno-Inguš. Gos. Ped. Inst. Učen. Zap.* Čečno-Ingušskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Groznyj)
- Celestial Mech.* Celestial Mechanics. (Dordrecht)
- Čeljabinsk. Gos. Ped. Inst. Trudy.* Čeljabinskij Gosudarstvennyj Pedagogičeskij Institut. Trudy. (Chelyabinsk)
- Centaurus.* Centaurus. (Copenhagen)
- Chem. Phys. Lett.* Chemical Physics Letters. (Amsterdam)
- Chinese J. Phys. (Peking).* Chinese Journal of Physics (Peking). A translation of Acta Physica Sinica of the Chinese Academy of Sciences, Peking. (New York) (Translation of Acta Phys. Sinica)
- Chinese Math.—Acta.* Chinese Mathematics. Translation of Acta Mathematica Sinica. (Providence, R.I.) (Translation of Acta Math. Sinica)
- Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o.* (Academy of Science of the People's Republic of Korea. Bulletin). Cho-sŏn Min-ju-ju-ti In-min Kong-hwa-kuk Kwa-hak-wŏn. T'ong-p'o. (Pyongyang)
- Ciencias Ser. I Mat.* Ciencias. Serie I. Matemática. (Havana)
- Čisl. Metody Meh. Splošnoi Sredy.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Vyčislitel'nyj Centr. Čislennye Metody Mehaniki Splošnoi Sredy. (Novosibirsk)
- Čitin. Gos. Ped. Inst. Učen. Zap.* Čitinskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Chita)
- Collect. Math.* Consejo Superior de Investigaciones Científicas. Universidad de Barcelona. Collectanea Mathematica. Seminario Matemático de Barcelona. (Barcelona)
- Collog. Math.* Colloquium Mathematicum. (Warsaw)
- Comm. ACM.* Communications of the Association for Computing Machinery. (New York)
- *Comm. Algebra.* Communications in Algebra. (New York)
- Comm. Dublin Inst. Adv. Studies Ser. A.* Communications of the Dublin Institute for Advanced Studies. Series A. (Dublin)
- Comm. Fac. Sci. Univ. Ankara Sér. A.* Communications de la Faculté des Sciences de l'Université d'Ankara. Série A. Mathématiques-Physique-Astronomie. (Ankara)
- Comm. Math. Phys.* Communications in Mathematical Physics. (Berlin)
- Comm. Pure Appl. Math.* Communications on Pure and Applied Mathematics. (New York)
- Comm. Statist.* Communications in Statistics. (New York)
- Comment. Math. Helv.* Commentarii Mathematici Helvetici. (Zurich)
- Comment. Math. Prace Mat.* Roczniki Polskiego Towarzystwa Matematycznego. Seria I. Commentationes Mathematicae. Prace Matematyczne. (Warsaw)
- Comment. Math. Univ. Carolinae.* Commentationes Mathematicae Universitatis Carolinae. (Prague)
- Comment. Math. Univ. St. Paul.* Commentarii Mathematici Universitatis Sancti Pauli. Rikkyō Daigaku Sōgaku Zasshi. (Tokyo)
- Compositio Math.* Compositio Mathematica. (Groningen)
- Comput. and Control Abstracts.* Computer and Control Abstracts. (New York)
- *Comput. Graphics and Image Processing.* Computer Graphics and Image Processing. An International Journal. (New York)
- Comput. J.* The Computer Journal. (London)
- Comput. Rev.* Computing Reviews. (New York) (Usually abbreviated CR in the text of Math. Reviews)
- Comput. Surveys.* Computing Surveys. ACM. Association for Computing Machinery. (New York)
- Computers & Structures.* Computers & Structures. (New York)
- Computing (Arch. Elektron. Rechnen).* Computing. Archiv für Elektronisches Rechnen. Archives for Electronic Computing. (Vienna)
- COMSAT Tech. Rev.* COMSAT Technical Review. Communications Satellite Corporation. (Washington, D.C.)
- Confer. Sem. Mat. Univ. Bari.* Conferenze del Seminario di Matematica dell'Università di Bari. (Bari)
- Contents Contemporary Math. J. and New Publ.* Contents of Contemporary Mathematical Journals and New Publishers. (Providence, R.I.)
- Cosmic Res.* Cosmic Research. (New York) (Translation of Kosmices Issled.)
- CR.* Computing Reviews. (New York)
- Čuvaš. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosveščeniya RSFSR. Čuvašskij Gosudarstvennyj Pedagogičeskij Institut im. I. Ja. Jakovleva. Učenyje Zapiski. (Cheboksary) (May also appear as: Čuvaš. Gos. Univ. i Čuvaš. Gos. Ped. Inst. Učen. Zap.)
- Čuvaš. Gos. Univ. i Čuvaš. Gos. Ped. Inst. Učen. Zap.* Čuvašskij Gosudarstvennyj Universitet im. I. N. Ul'janova. Čuvašskij Gosudarstvennyj Pedagogičeskij Institut im. I. Ja. Jakovleva. Učenyje Zapiski. (Cheboksary) (May also appear as: Čuvaš. Gos. Ped. Inst. Učen. Zap.)
- Cybernetica.* Cybernetica. (Namur)
- Cybernetics.* Cybernetics. (New York) (A translation of Kibernetika (Kiev))
- Czasopis. Techn.* Politechnika Krakowska i Krakowskie Zjednoczenie Budownictwa. Czasopismo Techniczne. (Kraków)
- Czechoslovak J. Phys.* Československá Akademie Nauk. Československij Fizičeskij Žurnal. Czechoslovak Academy of Sciences. Czechoslovak Journal of Physics. (Prague)
- Czechoslovak Math. J.* Československá Akademie Nauk. Československij Matematičeskij Žurnal. Czechoslovak Mathematical Journal. (Prague)
- Dagestan. Gos. Univ. Učen. Zap.* Dagestanskij Gosudarstvennyj Universitet im. V. I. Lenina. Učenyje Zapiski. (Makhachkala)
- Dal'nevostočn. Gos. Univ. Učen. Zap.* Dal'nevostočnyj Gosudarstvennyj Universitet. Učenyje Zapiski. Serija fiziko-matematičeskij Nauk. (Vladivostok)
- *Dal'nevostočn. Mat. Sb.* Dal'nevostočnyj Matematičeskij Sbornik. Ministerstvo Prosveščeniya RSFSR. Khabarovskij Gosudarstvennyj Institut. (Khabarovsk) (Formerly: Trudy Naučn. Ob'ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.)
- Danske Vid. Selsk. Mat.-Fys. Medd.* Det Kongelige Danske Videnskaberne Selskab Matematisk-Fysiske Meddelelser. (Copenhagen)
- Defence Sci. J.* Defence Science Journal. (Delhi)
- Delta (Waukesha).* Delta. Waukesha Mathematics Society. (Waukesha, Wis.)
- Demonstratio Math.* Demonstratio Mathematica. (Warsaw)
- Denshi Tōshin Gakkai Ronbunshi.* See Electron. Commun. Japan and Systems-Computers-Controls.

ABBREVIATIONS OF NAMES OF JOURNALS

- **Dialogue*. Dialogue. Canadian Philosophical Review. Revue Canadienne de Philosophie. (Montreal, Que.)
- Diferencial'nye Uravnenija*. *Diferencial'nye Uravnenija*. (Minsk) (Translated as: *Differential Equations*)
- **Diferencial'nye Uravnenija i Primenen.*—*Trudy Sem. Processy Optimal. Upravlenija. I Sekcija*. Institut Fiziki i Matematiki Akademii Nauk Litovskoi SSR. *Diferencial'nye Uravnenija i ih Primenenie*. Trudy Respublikanskogo Naučnogo Seminara "Processy Optimal'nogo Upravlenija". I Sekcija. (Vilnius)
- Differential Equations*. *Differential Equations*. (New York) (Translation of *Diferencial'nye Uravnenija*)
- Dinamika Splošn. Sredy*. Institut Gidrodinamiki Sibirskogo Otdelenija Akademii Nauk SSSR. *Dinamika Splošnoi Sredy*. (Novosibirsk)
- Discrete Math.* *Discrete Mathematics*. (Amsterdam)
- Diskret. Analiz*. Akademiya Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. *Diskretnyi Analiz*. Sbornik Trudov. (Novosibirsk)
- Dissertationes Math. (Rozprawy Mat.)* Polska Akademia Nauk. Instytut Matematyczny. *Dissertationes Mathematicae. Rozprawy Matematyczne*. (Warsaw)
- Dokl. Akad. Nauk BSSR*. *Doklady Akademii Nauk BSSR*. (Minsk)
- Dokl. Akad. Nauk SSSR*. *Doklady Akademii Nauk SSSR*. (Moscow) (Mathematics section translated as: *Soviet Math. Dokl.*; Physics section translated as: *Soviet Physics Dokl.*)
- Dokl. Akad. Nauk Tadžik. SSR*. *Doklady Akademii Nauk Tadžikskoi SSR*. (Dushanbe)
- Dokl. Akad. Nauk UzSSR*. *Doklady Akademii Nauk UzSSR*. (Tashkent)
- Dopovid'i Akad. Nauk Ukraïn. RSR Ser. A*. *Dopovid'i Akademii Nauk Ukraïn'koï RSR. Serija A*. (Kiev)
- Dopovid'i Akad. Nauk Ukraïn. RSR Ser. B*. *Dopovid'i Akademii Nauk Ukraïn'koï RSR. Serija B*. (Kiev)
- Duke Math. J.* *Duke Mathematical Journal*. (Durham, N.C.)
- Dušanbin. Gos. Ped. Inst. Učen. Zap.* Dušanbinskii Gosudarstvennyi Pedagogičeskii Institut im. T. G. Ševčenko. Učenyje Zapiski. (Dushanbe)
- DVT—Dějiny Věd a Techniky*. DVT. Dějiny Věd a Techniky. Společnost pro Dějiny Věd a Techniky. (Prague)
- Econom. Comp. Econom. Cybernet. Stud. Res.* *Economic Computation and Economic Cybernetics Studies and Research*. (Bucharest)
- Econometrica*. *Econometrica*. Journal of the Econometric Society. (Chicago, Ill.)
- EEA*. Science Abstracts. Electrical & Electronics Abstracts. (London)
- Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim.* Eesti NSV Teaduste Akadeemia Füüsika ja Astronoomia Instituudi Uurimused. Trudy Instituta Fiziki i Astronomii Akademii Nauk Estonskoi SSR. Publikacii Tartuskoi Astronomičeskoi Observatorii. (Tartu)
- Eesti NSV Tead. Akad. Tartu Astronoom. Observ. Publ.* Eesti NSV Teaduste Akadeemia Tartu Astronoomia Observatooriumi Publikatsioonid. (Tartu)
- Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* Eesti NSV Teaduste Akadeemia Toimetised. Füüsika-Matemaatika. Izvestija Akademii Nauk Estonskoi SSR. Serija Fizika-Matematika. (Tallin)
- Ekonom. i Mat. Metody*. *Ekonomika i Matematičeskie Metody*. (Moscow)
- Ekonom.-Mat. Obzor*. Československá Akademie Věd. Ekonomicko-Matematický Obzor. (Prague)
- Elabuž. Gos. Ped. Inst. Učen. Zap.* Elabužskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Kazan)
- Electrical & Electronics Abstracts*. Science Abstracts. Electrical & Electronics Abstracts. (London) (Usually abbreviated *EEA* in the text of *Math. Reviews*)
- Electron. Commun. Japan*. *Electronics and Communications in Japan*. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D.C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi*. See also: *Systems-Computers-Controls*)
- Electron. Lett.* *Electronics Letters*. (London)
- Elektron. Informationsverarbeit. Kybernetik*. Sektion für Kybernetik beim Präsidium der Deutschen Akademie der Wissenschaften zu Berlin und der Mathematischen Gesellschaft der Deutschen Demokratischen Republik. Elektronische Informationsverarbeitung und Kybernetik. (Berlin)
- Elem. Math.* *Elemente der Mathematik*. *Revue de Mathématiques Élémentaires*. *Rivista de Matematica Elementare*. (Basel)
- Engng. Cybernetics*. *Engineering Cybernetics*. English Edition of *Tekhnicheskaja Kibernetika*. (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)
- Enseignement Math.* *L'Enseignement Mathématique*. (Geneva)
- Estadist. Española*. *Estadística Española*. (Madrid)
- Estadística*. *Estadística*. (Washington, D.C.)
- Euclides (Groningen)*. *Euclides*. Maandblad voor de Didactiek van de Wiskunde. (Groningen)
- Fac. Ingen. Agrimens. Montevideo Publ. Didact. Inst. Mat. Estadist.* Facultad de Ingeniería y Agrimensura. Montevideo. Publicaciones Didácticas del Instituto de Matemática y Estadística. (Montevideo)
- Fac. Sci. Univ. Skopje Annuaire*. Faculté des Sciences de l'Université de Skopje. Annuaire. (Skopje)
- Fasc. Math.* *Politechnika Poznańska. Zeszyty Matematyczne*. *Fasciculi Mathematici*. (Poznań)
- Fibonacci Quart.* The Fibonacci Quarterly. Official Organ of the Fibonacci Association. (St. Mary's College, Calif.)
- Fields and Quanta*. *Fields and Quanta*. (London)
- Fiz. Elementar. Častio i Atom. Jadra*. Ob'edinennyi Institut Jadernyh Issledovanii. Dubna. Fizika Elementarnyh Častio i Atomnogo Jadra. (Moscow) (Formerly: *Problemy Fiz. Elementar. Častio i Atom. Jadra*) (Translated as: *Soviet J. Particles and Nuclei*)
- Fiz.-Mat. Spis. B'lgar. Akad. Nauk*. B'lgarska Akademiya na Naukite Fizicheski Institut. Matematicheski Institut. Fiziko-Matematičesko Spisanie. (Sofia)
- Fizika (Zagreb)*. *Fizika*. A Journal of Experimental and Theoretical Physics. (Zagreb)
- Fluid Dynamics*. *Fluid Dynamics*. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza*)
- **Fluid Mech.—Soviet Res.* *Fluid Mechanics*. *Soviet Research*. (Washington, D.C.)
- FOA Rep.* FOA Reports. Forsvarets Forskningsanstalt (Research Institute of National Defence). (Stockholm)
- Formosan Sci.* *Formosan Science*. (Taipei)
- Fortschr. Physik*. *Fortschritte der Physik*. (Berlin)
- Found. Language*. *International Journal of Language and Philosophy*. Foundations of Language. (Dordrecht)
- Found. Phys.* *Foundations of Physics*. (New York)
- Frequenz—Z. Schwingungs- und Schwachstromtech.* *Frequenz*. Zeitschrift für Schwingungs- und Schwachstromtechnik. (Berlin)
- Functional Anal. Appl.* *Functional Analysis and its Applications*. (New York) (Translation of *Funkcional. Anal. i Priložen.*)
- Fund. Math.* *Polska Akademia Nauk. Fundamenta Mathematicae*. (Warsaw)
- Funkcial. Ekvac.* Fakto de l'Funkcialaj Ekvacioj Japana Matematika Societo. Funkcialaj Ekvacioj. Serio Internacia. (Kobe)
- Funkcional. Anal. i Priložen.* Akademiya Nauk SSSR. Funkcional'nyi Analiz i ego Priloženija. (Moscow) (Translated as: *Functional Anal. Appl.*)

ABBREVIATIONS OF NAMES OF JOURNALS

- Gac. Mat. (Madrid).* Gaceta Matemática. (Madrid)
- Gamqeneb. Math. Inst. Sem. Moşen. Anotacie.* Tbilisi Universiteti. Gamqenebithi Matematikis Institutis Seminari. Moşenebatha Anotaciobi. (Tbilisi) (Also listed as: *Sem. Inst. Prikl. Mat. Annotac. Doklady*)
- Ganita.* Ganita (Mathematics). Bharat Ganita Parishad (Benares Mathematical Society). (Lucknow)
- Gaz. Mat. (Lisboa).* Gazeta de Matemática. (Lisbon)
- Gaz. Mat. Ser. A.* Societatea de Ştiinţe Matematice din R. P. R. Gazeta Matematică. Publicaţie Pentru Studiul şi Răspîndirea Ştiinţelor Matematice. Seria A. (Bucharest)
- General Relativity and Gravitation.* General Relativity and Gravitation. (London)
- General Topology and Appl.* General Topology and its Applications. (Amsterdam)
- Geodæt. Inst. Medd.* Geodætisk Institut. Meddelelee. (Copenhagen)
- Geodes. and Aerophot.* Geodesy and Aerophotography. (Washington, D.C.) (Translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aerofot.*)
- Geometriae Dedicata.* Geometriae Dedicata. (Dordrecht)
- Gidrodromeh. i Teor. Uprugosti.* Gidrodromehika i Teoriya Uprugosti. (Kharkov)
- *Giorn. Econom. Ann. Econom.* Giornale degli Economisti e Annali de Economia. (Milan)
- Giorn. Ist. Ital. Attuari.* Giornale dell'Istituto Italiano degli Attuari. (Rome)
- Giorn. Mat. Battaglini.* Giornale di Matematiche di Battaglini. (Naples)
- Glasgow Math. J.* Glasgow Mathematical Journal. (Glasgow)
- Glasnik Mat. Ser. III.* Društvo Matematicara i Fizičara S. R. Hrvatske. Glasnik Matematički. Serija III. (Zagreb)
- Godišnik Inž.-Stroitel. Inst.* Godišnik na Inžerno-Stroitel'nija Institut. (Sofia) (Continued as: *Godišnik Visš. Inž.-Stroitel. Inst.*)
- *Godišnik Visš. Inž.-Stroitel. Inst.* Godišnik na Visšija Inžerno-Stroitel'nija Institut. (Sofia) (Formerly: *Godišnik Inž.-Stroitel. Inst.*)
- Godišnik Visš. Himikotehn. Inst. (Burgas).* Godišnik Visšija Himikotehnološki Institut. Burgas. (Sofia)
- Godišnik Visš. Tehn. Učebn. Zaved. Fiz.* Godišnik na Visšite Tehnički Učebni Zavedenija. Fizika. (Sofia)
- Godišnik Visš. Tehn. Učebn. Zaved. Mat.* Godišnik na Visšite Tehnički Učebni Zavedenija. Matematika. (Sofia)
- Godišnik Visš. Tehn. Učebn. Zaved. Priložna Meh.* Godišnik na Visšite Tehnički Učebni Zavedenija. Priložna Mehanika. (Sofia)
- Gor'kov. Gos. Univ. Učen. Zap.* Gor'kovskii Gosudarstvennyi Universitet. Učenyje Zapiski. (Gorki)
- Gruzín. Politehn. Inst. Trudy.* Gruzinskii Politehničeskii Institut im. V. I. Lenina. Trudy. (Tbilisi) See *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.*
- Hak-sul Chi.* Hak-sul Chi. (Seoul)
- Helv. Phys. Acta.* Helvetica Physica Acta. Societatis Physicae Helveticae Commentaria Publica. (Basel)
- Hiroshima Math. J.* Hiroshima Mathematical Journal. (Hiroshima)
- *Hist.-Filos. Skr. Danske Vid. Selsk.* Historisk-Filosofiske Skrifter Udgivet af det Kongelige Danske Videnskabernes Selskab. (Copenhagen)
- Hist. of Sci.* History of Science. An Annual Review of Literature, Research, and Teaching. (Cambridge, England)
- Historia Math.* Historia Mathematica. (Toronto, Ont.)
- Hitotsubashi J. Arts Sci.* Hitotsubashi Journal of Arts & Sciences. Hitotsubashi University. (Tokyo)
- Hokkaido Math. J.* Hokkaido Mathematical Journal. (Sapporo)
- IBM J. Res. Develop.* IBM Journal of Research and Development. International Business Machines Corporation. (New York)
- IBM Systems J.* International Business Machines Corporation. IBM Systems Journal. (Armonk, N.Y.)
- Icarus.* Icarus. International Journal of the Solar System. (New York)
- IEEE Trans. Aerospace and Electron. Systems.* IEEE Transactions on Aerospace and Electronic Systems. (New York)
- IEEE Trans. Antennas and Propagation.* IEEE Transactions on Antennas and Propagation. (New York)
- IEEE Trans. Automatic Control.* IEEE Transactions on Automatic Control. (New York)
- IEEE Trans. Circuits and Systems.* IEEE Transactions on Circuits and Systems. (New York) (Formerly: *IEEE Trans. Circuit Theory*)
- IEEE Trans. Circuit Theory.* IEEE Transactions on Circuit Theory. (New York) (Continued as: *IEEE Trans. Circuits and Systems*)
- IEEE Trans. Comm. Tech.* IEEE Transactions on Communication Technology. (New York)
- IEEE Trans. Computers.* IEEE Transactions on Computers. (New York)
- IEEE Trans. Geosci. Electronics.* IEEE Transactions on Geoscience Electronics. (New York)
- IEEE Trans. Information Theory.* IEEE Transactions on Information Theory. (New York)
- *IEEE Trans. Microwave Theory Tech.* IEEE Transactions on Microwave Theory and Techniques. (New York)
- IEEE Trans. Systems, Man, and Cybernet.* IEEE Transactions on Systems, Man, and Cybernetics. (New York)
- Illinois J. Math.* Illinois Journal of Mathematics. (Urbana, Ill.)
- Indag. Math.* Indagationes Mathematicae. See *Nederl. Akad. Wetensch. Indag. Math.*
- Indian J. Engrg. Math.* Indian Journal of Engineering Mathematics. (Agra)
- Indian J. History Sci.* Indian Journal of History of Science. National Institute of Sciences of India. (New Delhi)
- Indian J. Math.* Indian Journal of Mathematics. (Allahabad)
- Indian J. Mech. Math.* Indian Journal of Mechanics and Mathematics. (Calcutta)
- Indian J. Pure Appl. Math.* Indian Journal of Pure and Applied Mathematics. (New Delhi)
- *Indian J. Pure Appl. Phys.* Indian Journal of Pure and Applied Physics. (New Delhi)
- Indiana Univ. Math. J.* Indiana University Mathematics Journal. (Bloomington, Ind.)
- Indust. Math.* Industrial Mathematics. (Detroit, Mich.)
- INFOR—Canad. J. Operational Res. and Information Processing.* INFOR. Canadian Journal of Operational Research and Information Processing. (Toronto, Ont.)
- Informác.-Elektron.* Információ-Elektronika. A Központi Statisztikai Hivatal Folyóirata. (Budapest)
- Information and Control.* Information and Control. (New York)
- Information Processing in Japan.* Information Processing in Japan. (Tokyo)
- Information Processing Lett.* Information Processing Letters. (Amsterdam)
- Information Processing Machines.* Information Processing Machines. (Prague)
- Information Sci.* Information Sciences. An International Journal. (New York)

ABBREVIATIONS OF NAMES OF JOURNALS

- Inst. Gulbenkian Ci. Centro Cálcl. Ci. Estud. Program. Anál. Númér.* Fundação Calouste Gulbenkian. Instituto Gulbenkian de Ciência. Centro de Cálculo Científico. Estudos de Programação e Análise Numérica. (Lisbon)
- Inst. Hautes Études Sci. Publ. Math.* Institut des Hautes Études Scientifiques. Publications Mathématiques. (Paris)
- Inst. Meh. Moskov. Gos. Univ. Naučn. Trudy.* Institut Mehaniki Moskovskogo Gosudarstvennogo Universiteta. Naučnye Trudy. (Moscow)
- Internat. Econom. Rev.* International Economic Review. (Osaka-Philadelphia, Pa.)
- Internat. J. Bio-Med. Comput.* International Journal of Bio-Medical Computing. (Essex)
- **Internat. J. Comput. & Fluids.* An International Journal. Computers & Fluids. (New York)
- Internat. J. Comput. Information Sci.* International Journal of Computer and Information Sciences. (New York)
- Internat. J. Comput. Math.* International Journal of Computer Mathematics. (New York)
- Internat. J. Control.* International Journal of Control. (London)
- Internat. J. Electron.* International Journal of Electronics. (London)
- Internat. J. Engrg. Sci.* International Journal of Engineering Science. (Oxford)
- Internat. J. Game Theory.* International Journal of Game Theory. (Vienna)
- Internat. J. Man-Machine Studies.* International Journal of Man-Machine Studies. (London)
- Internat. J. Non-Linear Mech.* International Journal of Non-Linear Mechanics. (New York)
- Internat. J. Numer. Methods Engrg.* International Journal for Numerical Methods in Engineering. (London)
- Internat. J. Solids and Structures.* International Journal of Solids and Structures. (New York)
- Internat. J. Systems Sci.* International Journal of Systems Science. (London)
- Internat. J. Theoret. Phys.* International Journal of Theoretical Physics. (London)
- Internat. Logic Rev.* International Logic Review. Rassegna Internazionale di Logica. (Bologna)
- Internat. Statist. Rev.* International Statistical Review. Revue Internationale de Statistique. (London)
- Invent. Math.* Inventiones Mathematicae. (Berlin)
- Inž.-Fiz. Ž.* Inženerno-Fizičeskij Žurnal. (Minak) (Translated as: *J. Engrg. Phys.*)
- Inž.-Stroitel. Inst. Kulbyšev. Sb. Trudov.* Moskovskij Ordena Trudovogo Krasnogo Znamenii Inženerno-Stroitel'nyj Institut im. V. V. Kulbyševa. Sbornik Trudov. (Moscow)
- Inž. Ž. Meh. Tverd. Tela.* Inženernyj Žurnal. Mehanika Tverdogo Tela. (Moscow) (Continued as: *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)
- Irkutsk. Politehn. Inst. Trudy.* Glavnoe Upravlenie Politehničeskikh, Mašinostroitel'nykh i Energetičeskikh VUZov. Irkutskij Politehničeskij Institut. Trudy. (Irkutsk)
- Isis.* Isis. An International Review Devoted to the History of Science and Civilization. (Cambridge, Mass.)
- Israel J. Math.* Israel Journal of Mathematics. (Jerusalem)
- Issled. Nekotorykh Voprosov Mat. Kibernet.* Issledovaniya Nekotorykh Voprosov Matematicheskoi Kibernetiki. (Tbilisi) See *Math. Kibernet. Zogierth. Sakith. Gamokiv.*
- Is. Lombardo Accad. Sci. Lett. Rend. A.* Istituto Lombardo. Accademia di Scienze e Lettere. Rendiconti. Scienze Matematiche, Fisiche, Chimiche e Geologiche. A. (Milan)
- Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* Istituto Veneto de Scienze, Lettere ed Arti. Venezia. Atti. Classe de Scienze Matematiche e Naturali. (Venice)
- Istanbul Tek. Univ. Bül.* Istanbul Teknik Üniversitesi Bülteni. Bulletin of the Technical University of Istanbul. (Istanbul)
- Istanbul Univ. Fen Fak. Mecm. Ser. A.* Istanbul Üniversitesi Fen Fakültesi Mecmuası. A Serisi. Sırfi ve Tatbiki Matematik. Revue de la Faculté des Sciences de l'Université d'Istanbul. Série A. Mathématiques Pures et Appliquées. (Istanbul)
- Istor.-Astronom. Issled.* Istoriko-Astronomičeskie Issledovaniya. (Moscow)
- Istor.-Mat. Issled.* Istoriko-Matematičeskie Issledovaniya. (Moscow)
- Ivanov. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvetšeniya RSFSR. Ivanovskij Gosudarstvennyj Pedagogičeskij Institut im. D. A. Furmanova. Ivanovskoe Matematicheskoe Obščestvo. Učenyje Zapiski. (Ivanovo)
- Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.* Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)
- Izv. Acad. Sci. USSR Phys. Solid Earth.* Izvestiya Academy of Sciences USSR. Physics of the Solid Earth. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)
- Izv. Akad. Nauk Armjan. SSR Ser. Fiz.* Izvestiya Akademii Nauk Armjanskoi SSR. Seriya Fizika. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Mat.* Izvestiya Akademii Nauk Armjanskoi SSR. Seriya Matematika. (Erevan)
- Izv. Akad. Nauk Armjan. SSR Ser. Meh.* Izvestiya Akademii Nauk Armjanskoi SSR. Seriya Mehanika. (Erevan)
- Izv. Akad. Nauk Azerbaidžan. SSR Ser. Fiz.-Tehn. Mat. Nauk.* Izvestiya Akademii Nauk Azerbaidžanskoi SSR. Seriya Fiziko-Tehničeskikh i Matematicheskikh Nauk. (Baku)
- Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* Izvestiya Akademii Nauk Kazahskoi SSR. Seriya Fiziko-Matematičeskaja. (Alma-Ata)
- Izv. Akad. Nauk Kirgis. SSR.* Izvestiya Akademii Nauk Kirgizskoi SSR. (Frunze)
- Izv. Akad. Nauk Moldav. SSR.* Izvestiya Akademija Nauk Moldavskoi SSR. (Kishinev) See *Bull. Akad. Štiințe RSS Moldoven.*
- Izv. Akad. Nauk SSSR Meh. Tverd. Tela.* Izvestiya Akademii Nauk SSSR. Mehanika Tverdogo Tela. (Moscow) (Formerly listed as: *Inž. Ž. Meh. Tverd. Tela*) (Translated as: *Mechanics of Solids*)
- Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana.* Izvestiya Akademii Nauk SSSR. Seriya Fizika Atmosfery i Okeana. (Moscow) (Translated as: *Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.*)
- Izv. Akad. Nauk SSSR Ser. Fiz. Zemli.* Izvestiya Akademii Nauk SSSR Seriya Fizika Zemli. (Moscow) (Translated as: *Izv. Acad. Sci. USSR Phys. Solid Earth*)
- Izv. Akad. Nauk SSSR Ser. Mat.* Izvestiya Akademii Nauk SSSR. Seriya Matematicheskaja. (Moscow) (Translated as: *Math. USSR. Izv.*)
- Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza.* Akademija Nauk SSSR. Izvestiya Akademii Nauk SSSR. Seriya Mehanika Židkosti i Gaza. (Moscow) (Translated as: *Fluid Dynamics*)
- Izv. Akad. Nauk SSSR Tehn. Kibernet.* Izvestiya Akademii Nauk SSSR. Tehničeskaja Kibernetika. (Moscow) (Translated as: *Engrg. Cybernetics*)
- Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk.* Izvestiya Akademii Nauk Tadžikskoi SSR. Otdelenie Fiziko-Matematičeskikh i Geologo-Himičeskikh Nauk. (Dushanbe)
- Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk.* Izvestiya Akademii Nauk Turkmenaskoi SSR. Seriya Fiziko-Tehničeskikh, Himičeskikh i Geologičeskikh Nauk. (Ashkhabad)
- Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk.* Izvestiya Akademii Nauk UzSSR. Seriya Fiziko-Matematičeskikh Nauk. UzSSR Fanlar Akademijasining Ahboroti. Fizika-Matematika Fanlari Serijasi. (Tashkent)

ABBREVIATIONS OF NAMES OF JOURNALS

- Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk.* *Izvestija Kazanskogo Filiala Akademii Nauk SSSR. Serija Fiziko-Matematičeskikh i Tehničeskikh Nauk.* (Kazan)
- Izv. Sibirsk. Otdel. Akad. Nauk SSSR.* *Izvestija Sibirskogo Otdelenija Akademija Nauk SSSR.* (Novosibirsk)
- Izv. Tomsk. Politehn. Inst.* *Izvestija Tomskogo Ordena Trudovogo Krasnogo Znameni Politehničeskogo Instituta imeni S.M. Kirova.* (Tomsk)
- Izv. Vuzov = Izv. Vysš. Učebn. Zaved. Matematika.*
- Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij. Aviacionnaja Tehnika.* (Kazan) (Translated as: *Soviet Aeronaut.*)
- Izv. Vysš. Učebn. Zaved. Elektromehanika.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij. Elektromehanika.* (Novocherkassk)
- Izv. Vysš. Učebn. Zaved. Fizika.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij Fizika.* (Tomsk) (Translated as: *Soviet Physics J.*)
- Izv. Vysš. Učebn. Zaved. Geod. i Aerofot.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij. Geodezija i Aerofotosemka.* (Moscow) (Translated as: *Geodes. and Aerophot.*)
- Izv. Vysš. Učebn. Zaved. Matematika.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij. Matematika.* (Kazan) (Translated as: *Soviet Math. (Iz. VUZ)*)
- Izv. Vysš. Učebn. Zaved. Radiofizika.* *Ministerstvo Vysšego i Srednego Special'nogo Obrazovaniya SSSR. Izvestija Vysših Učebnyh Zavedenij. Radiofizika.* (Gorki) (Translated as: *Radiophys. and Quantum Electronics*)
- J. Algebra.* *Journal of Algebra.* (New York)
- J. Amer. Statist. Assoc.* *Journal of the American Statistical Association.* (Washington, D.C.)
- J. Analyse Math.* *Journal d'Analyse Mathématique.* (Jerusalem)
- J. Annamalai Univ. Part B Sci.* *Journal of the Annamalai University. Part B. Sciences.* (Annamalainagar)
- J. Appl. Math. Mech.* *Journal of Applied Mathematics and Mechanics. Translation of the Soviet journal Prikladnaja Matematika i Mehanika.* (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Mech. Tech. Phys.* *Journal of Applied Mechanics and Technical Physics.* (New York) (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)
- J. Appl. Probability.* *Journal of Applied Probability.* (Sheffield)
- J. Approximation Theory.* *Journal of Approximation Theory.* (New York)
- J. Assoc. Comput. Mach.* *Journal of the Association for Computing Machinery.* (New York)
- J. Astronaut. Sci.* *American Astronautical Society. Journal of the Astronautical Sciences.* (Baltimore, Md.)
- J. Atmospheric Sci.* *Journal of the Atmospheric Sciences.* (Boston, Mass.)
- J. Austral. Math. Soc.* *The Journal of the Australian Mathematical Society.* (Sydney)
- J. Birla Inst. Tech. and Sci. Pilani.* *Journal of the Birla Institute of Technology and Science.* (Pilani)
- J. Chem. Phys.* *The Journal of Chemical Physics.* (New York)
- J. China Univ. Sci. Techn.* *Journal of the China University of Science and Technology. Zhongguo Kexue Jishu Daxue Xuebao.* (Peking)
- J. Combinatorial Theory Ser. A.* *Journal of Combinatorial Theory. Series A.* (New York)
- J. Combinatorial Theory Ser. B.* *Journal of Combinatorial Theory. Series B.* (New York)
- J. Comput. System Sci.* *Journal of Computer and Systems Sciences.* (New York)
- J. Computational Phys.* *Journal of Computational Physics.* (New York)
- J. Cuneiform Studies.* *Journal of Cuneiform Studies.* (New Haven, Conn.)
- J. Cybernet.* *Journal of Cybernetics. Transactions of the American Society for Cybernetics.* (Washington, D.C.) (Contents include translations from related Japanese and Russian journals.)
- J. Differential Equations.* *Journal of Differential Equations.* (New York)
- J. Differential Geometry.* *Journal of Differential Geometry.* (Bethlehem, Pa.)
- J. Elisha Mitchell Sci. Soc.* *Journal of the Elisha Mitchell Scientific Society.* (Chapel Hill, N.C.)
- J. Engrg. Math.* *Journal of Engineering Mathematics.* (Groningen)
- J. Engrg. Phys.* *Journal of Engineering Physics.* (New York) (Translation of *Inž.-Fiz. Ž.*)
- J. Fac. Engrg. Chiba Univ.* *Journal of the Faculty of Engineering. Chiba University.* (Chiba)
- J. Fac. Engrg. Univ. Tokyo Ser. B.* *Journal of the Faculty of Engineering. University of Tokyo. Series B.* (Tokyo)
- J. Fac. Sci. Shinshu Univ.* *Journal of the Faculty of Science. Shinshu University.* (Matsumoto)
- J. Fac. Sci. Univ. Tokyo Sect. I A Math.* *Journal of the Faculty of Science. University of Tokyo. Section I A. Mathematics.* (Tokyo)
- J. Fluid Mech.* *Journal of Fluid Mechanics.* (London)
- J. Franklin Inst.* *Journal of the Franklin Institute.* (Philadelphia, Pa.)
- J. Functional Analysis.* *Journal of Functional Analysis.* (New York)
- J. Geometry.* *Journal of Geometry.* (Basel)
- J. Hist. Astronom.* *Journal for the History of Astronomy.* (London)
- J. Hokkaido Univ. Ed. Sect. II A.* *Journal of Hokkaido University of Education. Section II A.* (Sapporo)
- J. Indian Math. Soc.* *The Journal of the Indian Mathematical Society.* (Madras)
- J. Indian Statist. Assoc.* *Journal of the Indian Statistical Association.* (Bombay)
- J. Inst. Math. Appl.* *Journal of the Institute of Mathematics and its Applications.* (New York)
- J. Internat. Assoc. Mathematical Geol.* *Journal of the International Association for Mathematical Geology.* (New York)
- J. Japan Statist. Soc.* *Journal of the Japan Statistical Society (Nihon Tōkei Gakkai Kaihō).* (Tokyo)
- J. Karnatak Univ. Sci.* *Journal of the Karnatak University. Science.* (Dharwar)
- J. Korean Math. Soc.* *Journal of the Korean Mathematical Society.* (Seoul)
- J. London Math. Soc.* *The Journal of the London Mathematical Society.* (London)
- J. Low Temp. Phys.* *Journal of Low Temperature Physics.* (New York)
- J. Madras Univ. B.* *Journal of the Madras University. B. Contributions in Mathematics, Physical and Biological Sciences.* (Madras)
- J. Math. Anal. Appl.* *Journal of Mathematical Analysis and Applications.* (New York)
- *J. Math. and Sci.* *Journal of Mathematics and Sciences.* (Islamabad)
- J. Math. (Jabalpur).* *Journal of Mathematics.* (Jabalpur)
- J. Math. Kyoto Univ.* *Journal of Mathematics of Kyoto University.* (Kyoto)

ABBREVIATIONS OF NAMES OF JOURNALS

- J. Math. Pures Appl.* Journal de Mathématiques Pures et Appliquées. (Paris)
- J. Math. Sci.* Journal of Mathematical Sciences. The Society of Mathematical Sciences. (Delhi)
- J. Math. Soc. Japan.* Journal of the Mathematical Society of Japan. (Tokyo)
- J. Math. Tokushima Univ.* Journal of Mathematics. Tokushima University. (Tokushima)
- **J. Mathematical Econom.* Journal of Mathematical Economics. (Amsterdam)
- J. Mathematical and Physical Sci.* Journal of Mathematical and Physical Sciences. (Madras)
- J. Mathematical Phys.* Journal of Mathematical Physics. (New York)
- J. Mathematical Psychology.* Journal of Mathematical Psychology. (New York)
- **J. Mathematical Sociology.* The Journal of Mathematical Sociology. (London)
- J. Mécanique.* Journal de Mécanique. (Paris)
- J. Mech. Phys. Solids.* Journal of the Mechanics and Physics of Solids. (London)
- J. Multivariate Anal.* Journal of Multivariate Analysis. (New York)
- J. Natur. Sci. and Math.* The Journal of Natural Sciences and Mathematics. (Lahore)
- J. Nuclear Sci. and Tech.* Journal of Nuclear Science and Technology. (Tokyo)
- J. Number Theory.* Journal of Number Theory. (New York)
- J. of M.A.U.T.* Journal of the Maulana Azad College of Technology. (Bhopal)
- J. Operations Res. Soc. Japan.* Journal of the Operations Research Society of Japan. (Tokyo)
- J. Opt. Soc. Amer.* Journal of the Optical Society of America. (New York)
- J. Optimization Theory Appl.* Journal of Optimization Theory and Applications. (New York)
- J. Philos. Logic.* Journal of Philosophical Logic. (Dordrecht)
- J. Phys. A.* Journal of Physics. A. General Physics. (London)
- J. Phys. B.* Journal of Physics. B. Atomic and Molecular Physics. (London)
- J. Phys. Soc. Japan.* Journal of the Physical Society of Japan. (Tokyo)
- J. Physique.* Le Journal de Physique. (Paris)
- J. Pure Appl. Algebra.* Journal of Pure and Applied Algebra. (Amsterdam)
- J. Recreational Math.* Journal of Recreational Mathematics. (Westport, Conn.)
- J. Reine Angew. Math.* Journal für die Reine und Angewandte Mathematik. (Berlin)
- J. Res. Nat. Bur. Standards Sect. B.* Journal of Research of the National Bureau of Standards. Section B. Mathematical Sciences. (Washington, D.C.)
- J. Roy. Statist. Soc. Ser. A.* Journal of the Royal Statistical Society. Series A. General. (London)
- J. Roy. Statist. Soc. Ser. B.* Journal of the Royal Statistical Society. Series B. Methodological. (London)
- J. Roy. Statist. Soc. Ser. C Appl. Statist.* Journal of the Royal Statistical Society. Series C. Applied Statistics. (London)
- J. Sci. Engrg. Res.* Journal of Science and Engineering Research. (Kharagpur)
- J. Sci. Res. Banaras Hindu Univ.* The Journal of Scientific Research of the Banaras Hindu University. (Varanasi)
- J. Shivaji Univ.* Journal of Shivaji University. (Kolhapur)
- J. Soviet Math.* Journal of Soviet Mathematics. (New York) (Translation of: (1) Itogi Nauki—Seriya Matematika (Progress in Science—Mathematical Series); (2) Problemy Matematicheskogo Analiza (Problems in Mathematical Analysis); (3) Zap. Nauchn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI))
- J. Statist. Comp. and Simulation.* Journal of Statistical Computation and Simulation. (New York)
- J. Statist. Phys.* Journal of Statistical Physics. (New York)
- J. Statist. Res.* Journal of Statistical Research. (Dacca)
- J. Symbolic Logic.* The Journal of Symbolic Logic. (Providence, R.I.)
- J. Tech. Bengal Engrg. College.* Journal of Technology. Bengal Engineering College. (Howrah)
- J. Theoret. Biol.* Journal of Theoretical Biology. (London)
- J. Tsing Hua Univ.* Journal of Tsing Hua University. (Peking)
- J. Tsuda College.* Journal of Tsuda College. (Tokyo)
- J. Univ. Bombay.* Journal of the University of Bombay. (Bombay)
- J. Warburg and Courtauld Inst.* Journal of the Warburg and Courtauld Institutes. (London)
- Jadernaja Fiz. Akademija Nauk SSSR.* Jadernaja Fizika. (Moscow) (Translated as: Soviet J. Nuclear Phys.)
- Janus.* Janus. Revue Internationale de l'Histoire des Sciences, de la Médecine, de la Pharmacie et de la Technique. (Leiden)
- Japan. J. Math.* Science Council of Japan. Japanese Journal of Mathematics. (Tokyo)
- Jaroslav. Gos. Ped. Inst. Dokl. Nauchn. Konfer.* Jaroslavskij Gosudarstvennyj Pedagogičeskij Institut. Doklady na Nauchnyh Konferencijah. (Jaroslavl')
- Jaroslav. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosveščeniya RSFSR. Jaroslavskij Gosudarstvennyj Pedagogičeskij Institut im. K. D. Ušinskogo. Učenyje Zapiski. (Jaroslavl')
- Jber. Deutsch. Math.-Verein.* Jahresbericht der Deutschen Mathematiker-Vereinigung. (Stuttgart)
- **JBSP—J. British Soc. Phenomenology.* JBSP. The Journal of the British Society for Phenomenology. (Manchester)
- Jñānabha Sect. A.* Jñānabha. Section A. Dayanand Vedic Postgraduate College. Kanpur University. (Orai)
- Kabardino-Balkarsk. Gos. Univ. Učen. Zap.* Kabardino-Balkarskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Nalchik)
- Kalinin. Gos. Ped. Inst. Učen. Zap.* Kalininskij Gosudarstvennyj Pedagogičeskij Institut im. M. I. Kalina. Učenyje Zapiski. (Kalinin)
- Kaliningrad. Gos. Ped. Inst. Učen. Zap.* Kaliningradskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Kaliningrad)
- Kaliningrad. Gos. Univ. Učen. Zap.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovanija RSFSR. Kaliningradskij Gosudarstvennyj Universitet. Učenyje Zapiski. (Kaliningrad)
- Karachi Math. Assoc. Riazi (Souvenir).* Riazi. Souvenir of the Karachi Mathematics Association. (Karachi)
- Kazah. Gos. Ped. Inst. Učen. Zap.* Kazahskij Gosudarstvennyj Pedagogičeskij Institut im. Abaja. Učenyje Zapiski. (Alma-Ata) (May also appear as: Alma-Atin. Gos. Ped. Inst. Učen. Zap.)
- Kazan. Gos. Univ. Učen. Zap.* Kazanskij Ordena Trudovogo Krasnogo Znamenija Gosudarstvennyj Universitet im. V. I. Ul'janova-Lenina. Učenyje Zapiski. (Kazan)
- Keiei-Kagaku.* Keiei-Kagaku (Management Science). Japanese Operations Research Association. (Tokyo)
- Keio Engrg. Rep.* Keio Engineering Reports. (Tokyo)
- Kemerov. Gos. Ped. Inst. Učen. Zap.* Kemerovskij Gosudarstvennyj Pedagogičeskij Institut. Učenyje Zapiski. (Kemerovo)
- Kenkyū Kiyō—Gakushūin Kōtōka.* Memoirs of Gakushūin High School. (Tokyo)

ABBREVIATIONS OF NAMES OF JOURNALS

- Kexue Tongbao*. Chinese Academy of Science. *Kexue Tongbao* (Science Bulletin). (Peking)
- Kexue Tongbao (Foreign Lang. Ed.)*. Academia Sinica. *Kexue Tongbao* (Science Bulletin). Foreign Language Edition. (Peking)
- Kibernetika* (Kiev). Otdelenie Matematiki, Mehaniki i Kibernetiki Akademii Nauk Ukrainako SSR. *Kibernetika*. (Kiev) (Translated as: *Cybernetics*)
- Kirov. Gos. Ped. Inst. Učen. Zap.* Kirovskii Gosudarstvennyi Pedagogičeskii Institut im. V. I. Lenina. Učenyje Zapiski. (Yoshkar-Ola)
- Kiŭnev. Gos. Univ. Učen. Zap.* Ministerstvo Narodnogo Obrazovanija Moldavsko SSR. Kiŭnevskii Gosudarstvennyi Universitet. Učenyje Zapiski. (Kishinev)
- Knižnice Odborn. Véd. Spisů Vysoké. Učení Tech. v Brně*. Knižnice Odborných a Vědeckých Spisů Vysokého Učení Technického v Brně. Vysoké Učení Technické v Brně. (Brno)
- Kōdai Math. Sem. Rep.* Kōdai Mathematical Seminar Reports. (Tokyo)
- Kolomen. Ped. Inst. Učen. Zap.* Ministerstvo Prosvěščenija RSFSR. Kolomenskii Pedagogičeskii Institut. Učenyje Zapiski. (Kolonna)
- Kombinatornyi Anal.* Kombinatornyi Analiz. Moskovskii Gosudarstvennyi Universitet im. M. V. Lomonosova. (Moscow)
- Kostrom. Gos. Ped. Inst. Učen. Zap.* Kostromskoi Gosudarstvennyi Pedagogičeskii Institut im. N. A. Nekrasova. Učenyje Zapiski. (Jaroslavl)
- **Közlemények—MTA Számítástechn. Automat. Kutató Int. Budapest.* Közlemények. MTA Számítástechnikai és Automatizálási Kutató Intézet Budapest. (Budapest)
- Krasnodar. Gos. Ped. Inst. Naučn. Trudy.* Krasnodarskii Gosudarstvennyi Pedagogičeskii Institut. Naučnye Trudy. (Krasnodar) (Continued as: *Kuban Gos. Univ. Naučn. Trudy*)
- Krasnojarsk. Politehn. Inst. Sb. Naučn. Trudov Meh. Fak.* Krasnojarskii Politehničeskii Institut. Sbornik Naučnyh Trudov Mehaničeskogo Fakul'teta. (Krasnojarsk)
- Kuban. Gos. Univ. Naučn. Trudy.* Kubanskii Gosudarstvennyi Universitet. Naučnye Trudy. (Krasnodar) (Formerly: *Krasnodar. Gos. Ped. Inst. Naučn. Trudy*)
- Kuŭbyšev. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosvěščenija RSFSR. Kuŭbyševskii Gosudarstvennyi Pedagogičeskii Institut im. V. V. Kuŭbyševa. Učenyje Zapiski. (Kuybyshev)
- Kumamoto J. Sci. (Math.).* Kumamoto Journal of Science. Mathematics. (Kumamoto) (Formerly: *Kumamoto J. Sci. Ser. A*)
- Kumamoto J. Sci. Ser. A.* Kumamoto Journal of Science. Series A. Mathematics, Physics and Chemistry. (Kumamoto)
- Kursk. Gos. Ped. Inst. Učen. Zap.* Kurskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Belgorod)
- Kybernetes. Kybernetik.* An International Journal of Cybernetics and General Systems. (London)
- Kybernetik (Berlin).* Kybernetik. (Berlin)
- Kybernetika (Prague).* Kybernetika. (Prague)
- Kyungpook Math. J.* Kyungpook National University. Kyungpook Mathematical Journal. (Taegu)
- Labdev—J. Sci. Tech. Part A.* Labdev. Journal of Sciences and Technology. Part A. Physical Sciences. (Kanpur)
- Laboratorio Anal. Numer. Consiglio Naz. Ricerche Pubbl.* Laboratorio di Analisi Numerica del Consiglio Nazionale delle Ricerche. Pubblicazioni. (Pavia)
- Latvijas PSR Zinātņu Akad. Vēstis.* Latvijas PSR Zinātņu Akadēmijas Vēstis. Izvestija Akademii Nauk Latvīsko SSR. (Riga)
- Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* Latvijas PSR Zinātņu Akadēmijas Vēstis. Fizikas un Tehnisko Zinātņu Sērija. Izvestija Akademii Nauk Latvīsko SSR. Serija Fizičeskij i Tehničeskij Nauk. (Riga)
- Latvijas Valsts Univ. Zinātņ. Raksti.* PSRS Augstākās Izglītības Ministrija. Pētera Stučkas Latvijas Valsts Universitāte. Zinātniskie Raksti. Ministerstvo Vyšego Obrazovanija. Latvīskii Gosudarstvennyi Universitet im. Petra Stučki. Učenyje Zapiski. (Riga)
- Leninabad. Gos. Ped. Inst. Učen. Zap.* Leninabadskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Dushanbe)
- Leningrad. Gos. Ped. Inst. Učen. Zap.* Leningradskii Gosudarstvennyi Pedagogičeskii Institut im. A. I. Gercena. Učenyje Zapiski. (Leningrad)
- Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk. Trudy Astronom. Obser.* Leningradskii Gosudarstvennyi Ordona Lenina Universitet imeni A. A. Ždanova. Učenyje Zapiski. Serija Matematičeskij Nauk. Trudy Astronomičeskoi Observatorii. (Leningrad)
- Leningrad. Inž.-Ekonom. Inst. Trudy.* Leningradskii Inženerno-Ekonomičeskii Institut imeni Pal'miro Tol'jatti. Trudy. (Leningrad)
- Leningrad. Inž.-Stroitel. Inst. Sb. Trudov.* Leningradskii Inženerno-Stroitel'skii Institut. Sbornik Trudov. (Leningrad)
- Leningrad. Meh. Inst. Sb. Trudov (LMI).* Leningradskii Mehaničeskii Institut. Sbornik Trudov (LMI). (Leningrad)
- Leningrad. Politehn. Inst. Trudy.* Ministerstvo Vyšego i Srednego Special'nogo Obrazovanija RSFSR. Leningradskii Politehničeskii Institut im. M. I. Kalinina. Trudy LPI. (Leningrad)
- Lett. Nuovo Cimento.* Lettere al Nuovo Cimento. Rivista Internazionale della Società Italiana di Fisica. (Bologna)
- Libyan J. Sci.* The Libyan Journal of Science. (Tripoli)
- Linear Algebra and Appl.* Linear Algebra and its Applications. (New York)
- Linear and Multilinear Algebra.* Linear and Multilinear Algebra. (New York)
- Litovsk. Fiz. Sb.* Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštosios Mokyklos. Lietuvos Fizikos Rinkiny. Akademija Nauk Litovsko SSR. Vyššie Školy Litovsko SSR. Litovskii Fizičeskii Sbornik. (Vilnius) (Translated as: *Soviet Physics—Collection*)
- Litovsk. Mat. Sb.* Lietuvos TSR Mokslų Akademija. Lietuvos TSR Aukštosios Mokyklos. Lietuvos Matematikos Rinkiny. Akademija Nauk Litovsko SSR. Vyššie Učebnye Zavedenija Litovsko SSR. Litovskii Matematičeskii Sbornik. (Vilnius)
- Logique et Analyse.* Logique et Analyse. (Louvain)
- Lucrări Ști. Inst. Ped. Galați.* Lucrări Științifice. Institutul Pedagogic Galați. (Galați)
- L'vov. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat.* MVO USSR. L'vovskii Politehničeskii Institut. Naučnye Zapiski. Serija Fiziko-Matematičeskaja. (Lvov)
- Magnetohydrodynamics.* Magnetohydrodynamics. (A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR). (New York) (Translation of *Magnit. Gidrodinamika*)
- Magnit. Gidrodinamika.* Akademija Nauk Latvīsko SSR. Magnitnaja Gidrodinamika. (Riga) (Translated as: *Magnetohydrodynamics*)
- Magyar Tud. Akad. Mat. Fiz. Ost. Kéz. A Magyar Tudományos Akadémia Matematikai és Fizikai Tudományok Osztályának Közleményei.* (Budapest)
- Makedon. Akad. Nauk. Umet. Oddel. Prirod.-Mat. Nauk. Priloz.* Makedonska Akademija na Naukite i Umetnostite. Oddelenie za Prirodo-Matematički Nauki. Priloz. (Skopje)
- Management Sci.* Management Science. Journal of the Institute of Management Science. (Philadelphia, Pa.)
- Manuscripta Math.* Manuscripta Mathematica. (Berlin)
- Marj. Gos. Ped. Inst. Učen. Zap.* Marjiskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Ioshkar-Ola)
- Mat. Časopis Sloven. Akad. Vied.* Matematičský Časopis Slovenskej Akadémie Vied. (Bratislava)

ABBREVIATIONS OF NAMES OF JOURNALS

Mat.-Fys. Medd. Danske Vid. Selsk. Matematiskfysiske Meddelelser udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)

Mat.-Fys. Skr. Danske Vid. Selsk. Matematiskfysiske Skrifter udgivet af Det Kongelige Danske Videnskabernes Selskab. (Copenhagen)

Mat. Issled. Akademija Nauk Moldavskoi SSR. Institut Matematiki s Vychislitel'nym Centrom. Matematičeskije Issledovanija. (Kishinev)

Mat. Lapok. Matematikai Lapok. Bolyai János Matematikai Társulat. (Budapest)

**Mat. Metody v Social. Nauk.—Trudy Sem. Processy Optimal. Upravleniya. II Sekcija.* Institut Fiziki i Matematiki Litovskoi SSR. Matematičeskije Metody v Social'nyh Naukah. Trudy Respublikanskogo Naučnogo Seminara "Processy Optimal'nogo Upravleniya". II Sekcija. (Vilnius)

Mat. Sb. Matematičeskii Sbornik. Novaja Serija. (Moscow) (Translated as: *Math. USSR-Sb.*)

Mat. v Škole. Matematika v Škole. (Moscow)

Mat. Vesnik. Društvo Matematičara, Fizičara i Astronoma SRS i Matematički Institut-Beograd. Matematički Vesnik. Nova Serija. (Belgrade)

Mat. Zametki. Akademija Nauk Sojuza SSR. Matematičeskije Zametki. (Moscow) (Translated as: *Math. Notes*)

Matematichhe (Catania). Le Matematichhe. (Catania)

Matematika. Matematika. (Belgrade)

Matematika—Period. Sb. Perevodov Inostran. Statei. Matematika. Periodičeskii Sbornik Perevodov Inostrannykh Statei. (Moscow)

Math. Algorithms. Massachusetts Institute of Technology. Mathematical Algorithms. (Cambridge, Mass.)

Math. Ann. Mathematische Annalen. (Berlin)

Math. Balkanica. Mathematica Balkanica. (Belgrade)

Math. Biosci. Mathematical Biosciences: An International Journal. (New York)

Math. Centrum Amsterdam Afd. Toegepaste Wisk. Mathematisch Centrum Amsterdam. Afdeling Toegepaste Wiskunde. (Amsterdam)

Math. Centrum Amsterdam Afd. Zuivere Wisk. Mathematisch Centrum Amsterdam. Afdeling Zuivere Wiskunde. (Amsterdam)

Math. Centrum Amsterdam Rekenafdeling. Mathematisch Centrum Amsterdam. Rekenafdeling. (Amsterdam)

Math. Chronicle. Mathematical Chronicle. (Auckland)

Math. Comp. Mathematics of Computation. (Providence, R.I.) (Sometimes abbreviated as *MC* in the text of *Math. Reviews*)

Math. Education. The Mathematics Education. (Siwan)

Math. Gaz. The Mathematical Gazette. (London)

Math. J. Okayama Univ. Mathematical Journal of Okayama University. (Okayama)

Math. Japon. Mathematica Japonicae. (Osaka)

Math. Kibernet. Zogierth. Sakith. Gamokw. Matematikuri Kibernetikis Zogierthi Sakithxis Gamokwewa. Tbilisis Sahelmeipho Universiteti Gamogenebithi Matematikis Instituti. (Tbilisi) (Also listed as: *Issled. Nekotorykh Voprosov Mat. Kibernet.*)

Math. Mag. Mathematics Magazine. (Buffalo, N.Y.)

Math. Nachr. Mathematische Nachrichten. (Berlin)

Math. Notas. Mathematicae Notae. Boletín del Instituto de Matemática. (Rosario)

Math. Notes. Mathematical Notes of the Academy of Sciences of the USSR. (New York) (Translation of *Mat. Zametki*)

Math. Operationsforsch. Statist. Mathematische Operationsforschung und Statistik. (Berlin)

Math.-Phys. Semesterber. Mathematisch-Physikalische Semesterberichte. (Göttingen)

**Math. Proc. Cambridge Philos. Soc.* Mathematical Proceedings of the Cambridge Philosophical Society. (Cambridge, England) (Formerly: *Proc. Cambridge Philos. Soc.*)

Math. Programming. Mathematical Programming. (Amsterdam)

Math. Rep. College General Ed. Kyushu Univ. Mathematical Reports of College of General Education. Kyushu University. (Fukuoka)

Math. Reviews. Mathematical Reviews. (Providence, R.I.) (Usually abbreviated as *MR* in the text of *Math. Reviews*)

Math. Scand. Mathematica Scandinavica. (Copenhagen)

Math. Sci. Humaines. Centre de Mathématique Sociale. École Pratique des Hautes Études. Mathématiques et Sciences Humaines. (Paris)

Math. Seminar. The Mathematics Seminar. (Delhi)

Math. Student. The Mathematics Student. (Madras)

Math. Systems Theory. Mathematical Systems Theory. (New York)

Math. und Wirtschaft. Mathematik und Wirtschaft. (Berlin)

Math. USSR-Izv. Mathematics of the USSR-Izvestiya. (Providence, R.I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)

Math. USSR-Sb. Mathematics of the USSR-Sbornik. (Providence, R.I.) (Translation of *Mat. Sb.*)

Math. Z. Mathematische Zeitschrift. (Berlin)

Mathematica (Cluj). Societatea de Științe Matematice și Fizice din R.P.R. Filiala Cluj. Mathematica. (Cluj)

Mathematika. Mathematika. A Journal of Pure and Applied Mathematics. (London)

Matrix Tensor Quart. The Tensor Club of Great Britain. The Matrix and Tensor Quarterly. (London)

MC. Mathematics of Computation. (Providence, R.I.)

Meccanica—J. Italian Assoc. Theoret. Appl. Mech. Meccanica. Journal of the Italian Association of Theoretical and Applied Mechanics. (Milan)

Mech. Teoret. Stos. Polskie Towarzystwo Mechaniki Teoretycznej i Stosowanej. Mechanika Teoretyczna i Stosowana. (Warsaw)

Mechanics of Solids. Mechanics of Solids. (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)

Med. Konink. Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch. Mededelingen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels)

Medd. Lunds Univ. Mat. Sem. Meddelanden från Lunds Universitets Matematiska Seminarium. Communications du Séminaire Mathématique de l'Université de Lund. (Lund)

Mehanika—Period. Sb. Perevodov Inostran. Statei. Mehanika. Periodičeskii Sbornik Perevodov Inostrannykh Statei. (Moscow)

Mehanika Polimerov. Mehanika Polimerov. (Riga)

Melekess. Gos. Ped. Inst. Učen. Zap. Melekesskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Melekess)

Mem. Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur. Memorie dell'Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali. (Turin)

Mem. Amer. Math. Soc. Memoirs of the American Mathematical Society. (Providence, R.I.)

Mem. Defense Acad. Memoirs of the Defense Academy. Mathematics, Physics, Chemistry and Engineering. (Yokosuka)

Mem. Ehime Univ. Natur. Sci. Ser. A. Memoirs of the Ehime University. Natural Science. Series A. (Matsuyama)

Mem. Fac. Ci. Univ. Habana Ser. Mat. Memorias de la Facultad de Ciencias. Universidad de la Habana. Serie Matemática. (Havana)

Mem. Fac. Ed. Kumamoto Univ. Sect. 1. Memoirs of the Faculty of Education. Kumamoto University. Section 1. Natural Science. (Kumamoto)

ABBREVIATIONS OF NAMES OF JOURNALS

- Mem. Fac. Ed. Miyazaki Univ.* Memoirs of the Faculty of Education. Miyazaki University. (Miyazaki)
- Mem. Fac. Engrg. Hiroshima Univ.* Memoirs of the Faculty of Engineering. Hiroshima University. (Hiroshima)
- Mem. Fac. Engrg. Kyoto Univ.* Memoirs of the Faculty of Engineering. Kyoto University. (Kyoto)
- Mem. Fac. Engrg. Miyazaki Univ.* Memoirs of the Faculty of Engineering. Miyazaki University. (Miyazaki)
- Mem. Fac. Indust. Arts Kyoto Tech. Univ. Sci. and Tech.* Memoirs of the Faculty of Industrial Arts. Kyoto Technical University. Science and Technology. (Kyoto)
- Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci.* Memoirs of the Faculty of Literature and Science. Shimane University. Natural Sciences. (Matsue)
- Mem. Fac. Sci. Kyushu Univ. Ser. A.* Memoirs of the Faculty of Science. Kyushu University. Series A. Mathematics. (Fukuoka)
- Mem. Kitami Inst. Tech.* Memoirs of the Kitami Institute of Technology. (Kitami)
- Mem. Mat. Inst. "Jorge Juan".* Consejo Superior de Investigaciones Científicas. Memorias de Matemática del Instituto "Jorge Juan". (Madrid)
- Mem. Muroran Inst. Tech.* Memoirs of the Muroran Institute of Technology. (Muran)
- Mem. Osaka Inst. Tech. Ser. A.* Memoirs of the Osaka Institute of Technology. Series A. Science & Technology. (Osaka)
- Mem. Osaka Kyoiku Univ. III Natur. Sci. Appl. Sci.* Memoirs of Osaka Kyoiku University. III. Natural Science and Applied Science. (Osaka)
- Mem. Real Acad. Ci. Art. Barcelona.* Memorias de la Real Academia de Ciencias y Artes de Barcelona. (Barcelona)
- Mem. Real Acad. Ci. Exact. Fis. Natur. Madrid.* Memorias de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. Serie de Ciencias Exactas. (Madrid)
- Mem. School Engrg. Okayama Univ.* Memoirs of the School of Engineering. Okayama University. (Okayama)
- Mem. School Sci. Engrg. Waseda Univ.* Memoirs of the School of Science and Engineering. Waseda University. (Tokyo)
- Mem. Soc. Astronom. Ital.* Memorie della Società Astronomica Italiana. (Milan)
- Mém. Soc. Roy. Sci. Liège Coll. in-8°.* Mémoires de la Société Royale des Sciences de Liège. Collection in-8°. (Liège)
- Mémor. Sci. Math.* Mémorial des Sciences Mathématiques. (Paris)
- Mémor. Sci. Phys.* Mémorial des Sciences Physiques. (Paris)
- Metody Vyčisl.* Leningradskii Ordena Lenina Gosudarstvennyi Universitet im. A. A. Ždanova. Kafedra Vyčislitel'noi Matematiki i Vyčislitel'nyi Centr. Metody Vyčislenii. (Leningrad)
- **Metra.* Metra. (Montrouge)
- Metrika.* Metrika. (Würzburg)
- Metroecon.* Metroeconomica. Rivista Internazionale di Economica. (Bologna)
- Metron.* Metron. (Rome)
- METU J. Pure Appl. Sci.* Middle East Technical University. Journal of Pure and Applied Sciences. Orta Doğu Teknik Üniversitesi. Temel ve Uygulamalı Bilimler Dergisi. (Ankara)
- Michigan Math. J.* The Michigan Mathematical Journal. (Ann Arbor, Mich.)
- Mind.* Mind. A Quarterly Review of Psychology and Philosophy. (Oxford)
- Miscelánea Mat.* Miscelánea Matemática. (Mexico City)
- Mitt. Math. Gesellsch. Hamburg.* Mitteilungen der Mathematischen Gesellschaft in Hamburg. (Hamburg)
- Mitt. Math. Sem. Giessen.* Mitteilungen aus dem Mathematischen Seminar Giessen. (Giessen)
- Mitt. Verein. Schweiz. Versich.-Math.* Mitteilungen der Vereinigung Schweizerischer Versicherungsmathematiker. Bulletin de l'Association des Actuaires Suisses. (Bern)
- Modelirovanie Èkonom. Processov.* Otdelenie Èkonomičeskoj Kibernetiki Èkonomičeskogo Fakul'teta Moskovskogo Gosudarstvennogo Universiteta im. M. V. Lomonosova. Modelirovanie Èkonomičeskikh Processov. (Moscow)
- Molecular Phys.* Molecular Physics. (London)
- Molod. Naučn. Rabotnik.* Erevanskii Gosudarstvennyi Universitet. Molodoi Naučnyi Rabotnik. (Erevan)
- Monatsb. Deutsch. Akad. Wiss. Berlin.* Monatsberichte der Deutschen Akademie der Wissenschaften zu Berlin. (Berlin)
- Monatsb. Math.* Monatshefte für Mathematik. (Vienna)
- Monografias Mat.* Monografias de Matemática. (Rio de Janeiro)
- Moscow Univ. Math. Bull.* Moscow University Mathematics Bulletin. (New York) (Translation of the mathematics section of *Vestnik Moskov. Univ. Ser. I Mat. Meh.*)
- Moscow Univ. Phys. Bull.* Moscow University Physics Bulletin. (New York) (Translation of the physics section of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)
- Moskov. Aviacion. Inst. Ordžonikidze Trudy.* Moskovskii Ordena Lenina Aviacionnyi Institut im. Sergo Ordžonikidze. Trudy. (Moscow)
- Moskov. Gos. Ped. Inst. Učen. Zap.* Moskovskii Gosudarstvennyi Pedagogičeskii Institut im. V. I. Lenina. Učenyje Zapiski. (Moscow)
- Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Šternberg.* Moskovskii Gosudarstvennyi Universitet im. M. V. Lomonosova. Soobščeniia Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Gos. Univ. Trudy Gos. Astronom. Inst. Šternberg.* Moskovskii Gosudarstvennyi Universitet im. M. V. Lomonosova. Trudy Gosudarstvennogo Astronomičeskogo Instituta im. P. K. Šternberga. (Moscow)
- Moskov. Inst. Èlektron. Mašinostroeniia—Trudy MIEM.* Ministerstvo Vyšego i Srednego Special'nogo Obrazovaniia RSFSR. Moskovskii Institut Èlektronnogo Mašinostroeniia. Trudy MIEM. (Moscow)
- Moskov. Inst. Inž. Železnodorož. Transporta Trudy.* Moskovskii Institut Inženerov Železnodorožnogo Transporta. Trudy. (Moscow)
- Moskov. Inž.-Stroitel. Inst. Sb. Trudov.* Moskovskii Inženerno-Stroitel'skii Institut im. V. V. Kuibyševa. Sbornik Trudov. (Moscow)
- **Moskov. Lesotehn. Inst. Naučn. Trudy.* Moskovskii Lesotekhnicheskii Institut. Naučnye Trudy. (Moscow)
- Moskov. Oblast. Ped. Inst. Učen. Zap.* Moskovskii Oblastnoi Pedagogičeskii Institut. Učenyje Zapiski. (Moscow)
- Moskov. Zaočn. Ped. Inst. Učen. Zap.* Moskovskii Zaočnyi Pedagogičeskii Institut. Učenyje Zapiski. (Moscow)
- MR.* Mathematical Reviews. (Providence, R.I.)
- Muromsk. Gos. Ped. Inst. Učen. Zap.* Muromskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Vladimir)
- Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II.* Nachrichten der Akademie der Wissenschaften in Göttingen. II. Mathematisch-Physikalische Klasse. (Göttingen)
- Nachrichtentech. Elektronik.* Nachrichtentechnik. Elektronik. Technisch-wissenschaftliche Zeitschrift für die Gesamte Elektronische Nachrichtentechnik. (Berlin)
- **Nadežn. i Kontrol' Kačestva.* Èžemesjačnoe Priloženie k Žurnalu Standarty i Kačestvo Gosudarstvennyi Komitet Standartov Soveta Ministrov SSSR. Nadežnost' i Kontrol' Kačestva. (Moscow)
- Nagoya Math. J.* Nagoya Mathematical Journal. (Nagoya)
- Nanta Math.* Nanyang University. Nanta Mathematica. (Singapore)

ABBREVIATIONS OF NAMES OF JOURNALS

- Nanyang Univ. J. Part I.* Nanyang University Journal. Part I. Natural Sciences. (Singapore)
- Natur. Sci. Rep. Ochanomizu Univ.* Natural Science Report of the Ochanomizu University. (Tokyo)
- Naučn.-Issled. i Proekt. Inst. Mehanizacii i Avtomatizacii Upravlenija Proizv. v Avtomobil. Promysl. (NIUAVTOPROM) Trudy.* Naučno-Issledovatel'skii i Proektnyi Institut Mehanizacii i Avtomatizacii Upravlenija Proizvodstvom v Avtomobil'noi Promyšlennosti (NIUAVTOPROM). Trudy Instituta. (Gorki)
- Naučn.-Tehn. Informacija (VINITI) Ser. 2. Informacionnye Processy i Sistemy.* Akademija Nauk SSSR. Vsesojuznyi Institut Naučno i Tehničkoj Informacii. Naučno-Tehničkaja Informacija. Serija 2. Informacionnye Processy i Sistemy. (Moscow)
- Naval Res. Logist. Quart.* Naval Research Logistics Quarterly. (Washington, D.C.)
- NEC Res. Development.* NEC Research and Development (Technical Journal of Nippon Electric Co., Ltd.). (Tokyo)
- Nederl. Akad. Wetensch. Indag. Math.* Koninklijke Nederlandse Akademie van Wetenschappen. Indagationes Mathematicae ex Actis Quibus Titulus. Proceedings of the Section of Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Proc. Ser. A*)
- Nederl. Akad. Wetensch. Proc. Ser. A.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series A. Mathematical Sciences. (Amsterdam) (Same as: *Nederl. Akad. Wetensch. Indag. Math.*)
- Nederl. Akad. Wetensch. Proc. Ser. B.* Koninklijke Nederlandse Akademie van Wetenschappen. Proceedings. Series B. Physical Sciences. (Amsterdam)
- Nederl. Akad. Wetensch. Verslag Afd. Natuurk.* Koninklijke Nederlandse Akademie van Wetenschappen. Verslag van de Gewone Vergadering van de Afdeling Natuurkunde. (Amsterdam)
- Networks.* Networks. An International Journal. (New York)
- New Zealand Math. Mag.* The New Zealand Mathematics Magazine. (Auckland)
- Nieuw Arch. Wisk.* Nieuw Archief voor Wiskunde. (Groningen)
- Nigerian J. Sci.* University of Ibadan. Nigerian Journal of Science. (Ibadan)
- Nordisk Mat. Tidsskr.* Nordisk Matematisk Tidsskrift. (Oslo)
- Nordisk Tidsskr. Informationsbehandling (BIT).* Nordisk Tidsskrift for Informationsbehandling. (Copenhagen)
- Norske Vid. Selsk. Forh. (Trondheim).* Det Kongelige Norske Videnskabs Selskabs Forhandling. (Trondheim)
- Norske Vid. Selsk. Skr. (Trondheim).* Det Kongelige Norske Videnskabs Selskabs Skrifter. (Trondheim)
- Notes and Records Roy. Soc. London.* Notes and Records of the Royal Society of London. (London)
- Notices Amer. Math. Soc.* Notices of the American Mathematical Society. (Providence, R.I.)
- Notre Dame J. Formal Logic.* Notre Dame Journal of Formal Logic. (Notre Dame, Ind.)
- Notulae.* Notulae. (Bloomington, Ind.)
- Nova Acta Leopoldina (N.F.).* Nova Acta Leopoldina. Abhandlungen der Deutschen Akademie der Naturforscher Leopoldina. Neue Folge. (Leipzig)
- Novgorod. Golovn. Gos. Ped. Inst. Učen. Zap.* Novgorodskii Golovnoi Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Novgorod)
- Novosibirsk. Gos. Ped. Inst. Naučn. Trudy.* Novosibirskii Gosudarstvennyi Pedagogičeskii Institut. Naučnye Trudy. (Novosibirsk)
- NTM Schr. Geschichte Naturwiss. Tech. Medizin.* NTM Schriftenreihe für Geschichte der Naturwissenschaften Technik und Medizin. (Leipzig)
- Nuclear Phys.* Nuclear Physics. (Amsterdam)
- Numer. Math.* Numerische Mathematik. (Berlin)
- Nuovo Cimento A.* Il Nuovo Cimento A. (Bologna)
- Nuovo Cimento B.* Il Nuovo Cimento B. (Bologna)
- Obs. Astronom. Univ. Nac. La Plata Ser. Astronom.* Observatorio Astronómico de la Universidad Nacional de La Plata. Serie Astronómica. (La Plata)
- Obzornik Mat. Fiz.* Društvo Matematikov, Fizikov in Astronomov SRS. Obzornik za Matematiko in Fiziko. (Ljubljana)
- Operational Res. Quart.* Operational Research Quarterly. (Bristol)
- Operations Res.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.) (Sometimes abbreviated as *OR* in *Math. Reviews*)
- Opsearch.* Opsearch. The Journal of the Operational Research Society of India. (Delhi)
- Optica Acta.* Optica Acta. (London)
- Optimal. Planirovanie.* Optimal'noe Planirovanie. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. (Novosibirsk)
- Optimizacija.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Optimizacija. (Novosibirsk)
- OR.* Operations Research. The Journal of the Operations Research Society of America. (Baltimore, Md.)
- Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* Ministerstvo Prosvešćenija RSFSR. Orekhovo-Zuevskii Pedagogičeskii Institut. Učenyje Zapiski Kafedry Matematiki. (Moscow)
- Orenburg. Gos. Ped. Inst. Učen. Zap.* Orenburgskii Gosudarstvennyi Pedagogičeskii Institut im. V. P. Čkalova. Učenyje Zapiski. (Choljabinak)
- Organon.* Organon. Institut d'Histoire de la Science et de la Technique auprès de l'Académie Polonaise des Sciences. (Warsaw)
- Orlov. Gos. Ped. Inst. Učen. Zap.* Orlovskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Orel)
- Orsk. Gos. Ped. Inst. Učen. Zap.* Orskii Gosudarstvennyi Pedagogičeskii Institut im. T. G. Ševčenko. Učenyje Zapiski. (Orsk)
- Osaka J. Math.* Osaka Journal of Mathematics. (Osaka)
- Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II.* Österreichische Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Sitzungsberichte. Abteilung II. Mathematik, Astronomie, Physik, Meteorologie und Technik. (Vienna)
- Otbor i Peredača Informacii.* Otbor i Peredača Informacii. Akademija Nauk Ukrainakoï SSR. Fiziko-Mehaničeskii Institut. (Kiev)
- Oxford Bull. Econom. Statist.* Oxford Bulletin of Economics and Statistics. (Oxford) (Formerly: *Bull. Oxford Univ. Inst. Econom. Statist.*)
- P.A.* Science Abstracts. Physics Abstracts. (London)
- Pacific J. Math.* Pacific Journal of Mathematics. (Berkeley, Calif.)
- Papers and Proc. Roy. Soc. Tasmania.* Papers and Proceedings of the Royal Society of Tasmania. (Hobart)
- Pattern Recognition.* The Journal of the Pattern Recognition Society. (New York)
- *Penz. Ped. Inst. Učen. Zap.* Penzenskii Pedagogičeskii Institut im. V. G. Belinskogo. Učenyje Zapiski. (Penza)
- Penz. Politehn. Inst. Učen. Zap. Mat. Meh.* Penzenskii Politehničeskii Institut. Matematika i Mehanika. Učenyje Zapiski. (Penza)
- Period. Mat.* Periodico di Matematiche. (Bologna)
- Period. Math. Hungar.* Periodica Mathematica Hungarica. Journal of the János Bolyai Mathematical Society. (Budapest)
- Perm. Gos. Ped. Inst. Učen. Zap.* Permskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Perm)
- Perm. Gos. Univ. Učen. Zap.* Permskii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Učenyje Zapiski. (Perm)
- Perm. Politehn. Inst. Sb. Naučn. Trudov.* Permskii Politehničeskii Institut. Sbornik Naučnyh Trudov. (Perm)
- Philips Res. Rep.* Philips Research Reports. (Eindhoven)

ABBREVIATIONS OF NAMES OF JOURNALS

- Philips Res. Rep. Suppl.* Philips Research Reports. Supplements. (Eindhoven)
- **Philos. Forum Quart.* The Philosophical Forum. A Quarterly. (Boston, Mass.)
- Philos. Math.* Philosophia Mathematica. An International Journal for Philosophy of Modern Mathematics. (Hauppauge, N.Y.)
- Philos. Natur.* Philosophia Naturalis. Archiv für Naturphilosophie und die Philosophischen Grenzgebiete der Exakten Wissenschaften und Wissenschaftsgeschichte. (Meisenheim-Glan)
- **Philos. Quart.* The Philosophical Quarterly. (Edinburgh)
- Philos. Sci.* Philosophy of Science. (Baltimore, Md.)
- Philos. Studies.* Philosophical Studies. (Dordrecht)
- Philos. Trans. Roy. Soc. London Ser. A.* Philosophical Transactions of the Royal Society of London. Series A. Mathematical and Physical Sciences. (London)
- Phys. Fluids.* The Physics of Fluids. (New York)
- Phys. Lett.* Physics Letters. (Amsterdam)
- Phys. Norveg.* Physica Norvegica. (Oslo)
- Phys. Rep.* Physics Reports. Section C of *Physics Letters*. (Amsterdam)
- Phys. Rev. A.* Physical Review. A. General Physics. (New York)
- Phys. Rev. B.* Physical Review. B. Solid State. (New York)
- Phys. Rev. C.* Physical Review. C. Nuclear Physics. (New York)
- Phys. Rev. D.* Physical Review. D. Particles and Fields. (New York)
- Phys. Rev. Lett.* Physical Review Letters. (New York)
- Phys. Scripta.* Physica Scripta. (Stockholm)
- Phys. Status Solidi (A).* Physica Status Solidi. A. Applied Research. (Berlin)
- Phys. Status Solidi (B).* Physica Status Solidi. B. Basic Research. (Berlin)
- Physica.* Physica. (Amsterdam)
- Physics Abstracts.* Science Abstracts. Physics Abstracts. (London) (Usually abbreviated PA in the text of *Math. Reviews*)
- Physic—Riv. Internaz. Storia Sci.* Physica. Rivista Internazionale di Storia della Scienza. (Florence)
- Pi Mu Epsilon J.* Pi Mu Epsilon Journal. (Norman, Okla.)
- Plovdiv. Univ. Naučn. Trud.* Plovdivski Universitet. Naučni Trudove. (Plovdiv) (Formerly: *Visš Ped. Inst. Plovdiv. Naučn. Trud.*)
- Podstawy Sterowania.* Podstawy Sterowania. Polska Akademia Nauk. Centrum Badań Naukowych w Woj. Katowickim. Zakład Systemów Automatyki Kompleksowej. (Gliwice)
- Pokroky Mat. Fiz. Astronom.* Jednota Československých Matematiků a Fyziku. Pokroky Matematiky, Fyziky a Astronomie. (Prague)
- Polska Biblio. Analit. Mech.* Polska Akademia Nauk. Instytut Podstawowych Problemów Techniki. Polska Bibliografia Analityczna. Mechanika. Polish Scientific Abstracts. Mechanics. (Warsaw)
- Portugal. Math.* Portugalise Mathematica. (Lisbon)
- Portugal. Phys.* Portugalise Physica. (Lisbon)
- **Poste Telecomun.* Poste e Telecomunicazioni nello Sviluppo della Società. (Rome)
- Prace Inst. Automat. PAN.* Instytut Automatyki Polskiej Akademii Nauk. Prace. (Warsaw)
- Prace Inst. Maszyn Przepływowych.* Prace Instytutu Maszyn Przepływowych. Transactions of the Institute of Fluid-Flow Machinery. (Warsaw)
- **Prace Nauk. Inst. Mat. Fiz. Teoret. Politechn. Wrocław. Ser. Studia i Materiały.* Prace Naukowe Instytutu Matematyki i Fizyki Teoretycznej Politechniki Wrocławskiej. Seria Studia i Materiały. (Wrocław)
- Prakt. Akad. Athēnōn.* Πρακτικά τῆς Ἀκαδημίας Ἀθηνῶν. Praktika tēs Akademias Athenōn. (Athens)
- Praxis Math.* Praxis der Mathematik. (Cologne)
- Približ. Metod. Rešen. Differencial'. Urašen.* Približennyye Metody Rešenija Differencial'nyh Urašenij. (Kiev)
- Pribory i Sistemy Avtomat.* Pribory i Sistemy Avtomatiki. (Kharkov)
- Pribory i Sistemy Upravljenija.* Pribory i Sistemy Upravljenija. (Moscow)
- Prikl. Mat. i Programirovanie.* Akademija Nauk Moldavskoi SSR. Institut Matematiki s Vychislitel'nym Centrom. Prikladnaja Matematika i Programirovanie. (Kishinev)
- Prikl. Mat. Meh.* Akademija Nauk SSSR. Otdelenie Tehničeskikh Nauk. Institut Mehaniki. Prikladnaja Matematika i Mehanika. (Moscow) (Translated as: *J. Appl. Math. Mech.*)
- Prikl. Meh.* Akademija Nauk Ukrainskoi SSR. Otdelenie Matematiki, Mehaniki i Kibernetiki. Prikladnaja Mehanika. (Kiev) (Translated as: *Soviet Appl. Mech.*)
- Primenen. Mat. Ekonom.* Leningradskij Ordena Lenina Gosudarstvennyj Universitet im. A. A. Ždanova. Kafedra i Laboratorija Ekonomiko-Matematičeskikh Metodov. Primenenie Matematiki v Ekonomike. (Leningrad)
- Primenen. Metodov Vychisl. Mat. i EVM v Tehn.-Ekonom. Rasčet.* Kazanskij Gosudarstvennyj Universitet im. V. I. Ul'janova-Lenina. Trudy Vychislitel'nogo Centra. Primenenie Metodov Vychislitel'noj Matematiki i EVM v Tehniko-Ekonomičeskikh Rasčetah. (Kazan)
- Primenen. Metodov Vychisl. Mat. i Vychisl. Tehn. dlja Rešenija Naučno-Issled. i Narodnohozjaistv. Zadač.* Vychislitel'nyi Centr Voronežskogo Gosudarstvennogo Universiteta im. Leninskogo Komsomola. Primenenie Metodov Vychislitel'noj Matematiki i Vychislitel'noj Tehniki dlja Rešenija Naučno-Issledovatel'skikh i Narodnohozjaistvennyh Zadač. (Voronezh)
- Probleme der Kybernetik.* Probleme der Kybernetik. (Berlin) (Translation of *Problemy Kibernet.*)
- Problems of Control and Information Theory/Problemy Upravljenija i Teorii Informacii.* Problems of Control and Information Theory. Problemy Upravljenija i Teorii Informacii. (Budapest)
- Problems of Information Transmission.* Problems of Information Transmission. (New York) (Translation of *Problemy Peredači Informacii*)
- **Problemy Fiz. Elementar. Častic i Atom. Jadra.* Joint Institute for Nuclear Research. Dubna. Ob'edinyj Institut Jadernyh Issledovanij v Dubne. (Moscow) (Continued as: *Fiz. Elementar. Častic i Atom. Jadra*)
- Problemy Kibernet.* Problemy Kibernetiki. (Moscow) (Translated as: *Systems Theory Res.*)
- Problemy Mat. Anal. Slož. Sistem.* Voronežskij Gosudarstvennyj Universitet. Problemy Matematičeskogo Analiza Složnyh Sistem. (Voronezh)
- Problemy Peredači Informacii.* Akademija Nauk SSSR. Institut Problem Peredači Informacii Akademii Nauk SSSR. Problemy Peredači Informacii. (Moscow) (Translated as: *Problems of Information Transmission*)
- Proc. Amer. Math. Soc.* Proceedings of the American Mathematical Society. (Providence, R.I.)
- Proc. Cambridge Philos. Soc.* Proceedings of the Cambridge Philosophical Society. (Cambridge, England) (Continued as: *Math. Proc. Cambridge Philos. Soc.*)
- Proc. Edinburgh Math. Soc.* Proceedings of the Edinburgh Mathematical Society. (Edinburgh) (Contains *Proc. Edinburgh Math. Soc. Edinburgh Math. Notes*)
- Proc. Edinburgh Math. Soc. Edinburgh Math. Notes.* Proceedings of the Edinburgh Mathematical Society. Edinburgh Mathematical Notes. (Edinburgh) (Included in *Proc. Edinburgh Math. Soc.*)
- Proc. Fac. Sci. Tokai Univ.* Proceedings of the Faculty of Science of Tokai University. (Tokyo)
- Proc. IEEE.* Proceedings of the IEEE. (New York)

ABBREVIATIONS OF NAMES OF JOURNALS

- Proc. Indian Acad. Sci. Sect. A.* Proceedings of the Indian Academy of Sciences. Section A. (Bangalore)
- Proc. Indian Nat. Sci. Acad. Part A.* Proceedings of the Indian National Science Academy. Part A. Physical Sciences. (New Delhi)
- Proc. Inst. Elec. Engrs.* Proceedings of the Institution of Electrical Engineers. Electronics. Power. Control & Science. (London)
- Proc. Inst. Statist. Math.* The Proceedings of the Institute of Statistical Mathematics. (Tokyo)
- Proc. Iowa Acad. Sci.* Proceedings of the Iowa Academy of Science. (Des Moines, Iowa)
- Proc. IREE.* Proceedings. The Institution of Radio and Electronics Engineers of Australia. (Sydney)
- Proc. Japan Acad.* Proceedings of the Japan Academy. (Tokyo)
- Proc. London Math. Soc.* Proceedings of the London Mathematical Society. (London)
- Proc. Math. Phys. Soc. A.R.E.* Proceedings of the Mathematical and Physical Society of A.R.E. (Cairo) (Formerly: *Proc. Math. Phys. Soc. U.A.R. (Egypt)*)
- Proc. Math. Phys. Soc. U.A.R. (Egypt).* Proceedings of the Mathematical and Physical Society of U.A.R. (Egypt). (Cairo) (Continued as: *Proc. Math. Phys. Soc. A.R.E.*)
- Proc. Nat. Acad. Sci. India Sect. A.* Proceedings of the National Academy of Sciences, India. Section A. (Allahabad)
- Proc. Nat. Acad. Sci. U.S.A.* Proceedings of the National Academy of Sciences of the United States of America. (Washington, D.C.)
- Proc. Pakistan Statist. Assoc.* Proceedings of the Pakistan Statistical Association. (Lahore)
- Proc. Rajasthan Acad. Sci.* The Proceedings of the Rajasthan Academy of Sciences. (Pilani)
- Proc. Roy. Irish Acad. Sect. A.* Proceedings of the Royal Irish Academy. Section A. (Dublin)
- Proc. Roy. Soc. Edinburgh Sect. A.* Proceedings of the Royal Society of Edinburgh. Section A. Mathematical and Physical Sciences. (Edinburgh)
- Proc. Roy. Soc. London Ser. A.* Proceedings of the Royal Society. London. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. Ser. A*)
- Proc. Roy. Soc. Ser. A.* Proceedings of the Royal Society. Series A. Mathematical and Physical Sciences. (London) (May also appear as: *Proc. Roy. Soc. London Ser. A*)
- Proc. Steklov Inst. Math.* Proceedings of the Steklov Institute of Mathematics. (Providence, R.I.) (Translation of *Trudy Mat. Inst. Steklov.*)
- Proc. (Trudy) P. N. Lebedev Phys. Inst.* Proceedings (Trudy) of the P. N. Lebedev Physics Institute. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)
- Proc. Vibration Problems.* Polish Academy of Sciences. Institute of Fundamental Technological Research. Proceedings of Vibration Problems. (Warsaw)
- Proc. West Virginia Acad. Sci.* West Virginia University Bulletin. West Virginia Academy of Science. Proceedings. (Morgantown, W. Va.)
- Progr. Math.* See *Shuzue Jinshan.*
- Progr. Math. (Allahabad).* Academy for Progress of Mathematics of the University of Allahabad. Progress of Mathematics. (Allahabad)
- Progr. Theoret. Phys.* Progress of Theoretical Physics. (Kyoto)
- Przegląd Statyst.* Sekcja Statystyki Polskiego Towarzystwa Ekonomicznego. Przegląd Statystyczny. (Warsaw)
- Pskov. Ped. Inst. Fis.-Mat. Fak. Učen. Zap.* Ministerstvo Prosveshcheniya RSFSR. Pskovskii Pedagogičeskii Institut. Fiziko-Matematičeskii Fakul'tet. Učenyje Zapiski. (Pskov)
- Psychometrika.* Psychometrika. A Journal Devoted to the Development of Psychology as a Quantitative Rational Science. (Chapel Hill, N.C.)
- Pubbl. IAC.* IAC. Istituto per le Applicazioni del Calcolo del Consiglio Nazionale delle Ricerche. Pubblicazioni. (Rome)
- Publ. Dép. Math. (Lyon).* Publications du Département de Mathématiques. Faculté des Sciences de Lyon. (Lyon)
- Publ. Dept. Math. (Ljubljana).* University of Ljubljana. Institute of Mathematics, Physics and Mechanics. Publications of the Department of Mathematics. (Ljubljana)
- Publ. Économétriques.* Publications Économétriques. (Paris)
- Publ. Inst. Math. (Beograd).* Institut Mathématique. Publications de l'Institut Mathématique. Nouvelle Série. (Belgrade)
- Publ. Inst. Statist. Univ. Paris.* Publications de l'Institut de Statistique de l'Université de Paris. (Paris)
- Publ. Math. Debrecen.* Publicationes Mathematicae. (Debrecen)
- Publ. Ramanujan Inst.* Publications of the Ramanujan Institute. (Madras)
- Publ. Res. Inst. Math. Sci.* Publications of the Research Institute for Mathematical Sciences. (Kyoto)
- Publ. Sémin. Géom. Univ. Neuchâtel.* Publications du Séminaire de Géométrie de l'Université de Neuchâtel. (Neuchâtel)
- Punjab Univ. J. Math. (Lahore).* Punjab University Journal of Mathematics. (Lahore)
- Quart. Appl. Math.* Quarterly of Applied Mathematics. (Providence, R.I.)
- Quart. J. Math. Oxford Ser.* The Quarterly Journal of Mathematics. Oxford. Second Series. (Oxford)
- Quart. J. Mech. Appl. Math.* The Quarterly Journal of Mechanics and Applied Mathematics. (Oxford)
- RAAG Res. Notes.* Research Association of Applied Geometry. RAAG Research Notes. (Tokyo)
- Rad Jugoslav. Akad. Znan. Umjet.* Rad Jugoslovenske Akademije Znanosti i Umjetnosti. (Zagreb)
- Radio Engrg. Electron. Phys.* Radio Engineering and Electronic Physics. Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotekhn. i. Elektron.*)
- Radio Sci.* Radio Science. (Washington, D.C.)
- Radiophys. and Quantum Electronics.* Radiophysics and Quantum Electronics. A translation of the *Izvestija Vysših Učebnyh Zavedenij Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Radiofizika*)
- Radiotekhn. (Har'kov).* Har'kovskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyi Universitet im. A. M. Gor'kogo. Radiotekhnika. (Kharkov)
- Radiotekhn. i Elektron.* Akademija Nauk SSSR. Radiotekhnika i Elektronika. (Moscow) (Translated as: *Radio Engrg. Electron. Phys.*)
- Rajasthan Univ. Studies Statist.* Rajasthan University Studies in Statistics. Science Series. (Rajasthan)
- Ranchi Univ. Math. J.* Ranchi University Mathematical Journal. (Ranchi)
- Ratio.* Ratio. (Oxford)
- RCA Rev.* RCA Review. (Princeton, N.J.)
- Recherche Aérospat.* La Recherche Aérospatiale. (Châtillon)
- *Regelungstech.* Regelungstechnik. Zeitschrift für Steuerung, Regelung und Prozeßdatenverarbeitung. (Munich) (Formerly: *Regelungstech. Prozeß-Datenverarbeitung.*)
- Regelungstech. Prozeß-Datenverarbeitung.* Regelungstechnik und Prozeß-Datenverarbeitung. Zeitschrift für Steuern, Regeln und Automatisieren. (Munich) Continued as: *Regelungstech.*
- Rend. Accad. Sci. Fis. Mat. Napoli.* Società Nazionale di Scienze, Lettere ed Arti in Napoli. Rendiconto dell'Accademia delle Scienze Fisiche e Matematiche. (Naples)

ABBREVIATIONS OF NAMES OF JOURNALS

- Rend. Circ. Mat. Palermo.* Rendiconti del Circolo Matematico di Palermo. (Palermo)
- Rend. Ist. Mat. Univ. Trieste.* Rendiconti dell'Istituto di Matematica dell'Università di Trieste. (Trieste)
- Rend. Mat.* Rendiconti di Matematica. Università degli Studi di Roma. Istituto Matematico Guido Castelnuovo. Istituto di Matematica Applicata. Istituto Nazionale di Alta Matematica. (Rome)
- Rend. Sem. Fac. Sci. Univ. Cagliari.* Rendiconti del Seminario della Facoltà di Scienze della Università di Cagliari. (Cagliari)
- Rend. Sem. Mat. Fis. Milano.* Rendiconti del Seminario Matematico e Fisico di Milano. (Milan)
- Rend. Sem. Mat. Messina.* Rendiconti del Seminario Matematico di Messina. (Messina)
- Rend. Sem. Mat. Univ. e Politec. Torino.* Rendiconti del Seminario Matematico (già "Conferenze di Fisica e di Matematica"). Università e Politecnico di Torino. (Torino)
- Rend. Sem. Mat. Univ. Padova.* Rendiconti del Seminario Matematico dell'Università di Padova. (Padua)
- Rep. Comput. Centre Univ. Tokyo.* Report of the Computer Centre. University of Tokyo. (Tokyo)
- Rep. Fac. Sci. Kagoshima Univ.* Reports of the Faculty of Science of Kagoshima University. (Kagoshima)
- Rep. Fac. Sci. Shizuoka Univ.* Reports of the Faculty of Science. Shizuoka University. (Shizuoka)
- Rep. Inst. Sci. Tech. Univ. Tokyo.* The Reports of the Institute of Science and Technology. University of Tokyo. (Tokyo)
- Rep. Math. Logic.* Reports on Mathematical Logic. (Katowice)
- Rep. Mathematical Phys.* Reports on Mathematical Physics. (Amsterdam)
- Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* Reports of Statistical Application Research. Union of Japanese Scientists and Engineers. (Tokyo)
- Rep. Univ. Electro-Commun.* Reports of the University of Electro-Communications. (Tokyo)
- República Venezuela Bol. Acad. Ci. Fis. Mat. Natur.* República de Venezuela. Boletín de la Academia de Ciencias Físicas, Matemáticas y Naturales. (Caracas)
- Res. Bull. Fac. Ed. Oita Univ.* The Research Bulletin of the Faculty of Education. Oita University. (Oita)
- Res. Bull. Panjab Univ.* Research Bulletin of the Panjab University. (Chandigarh)
- Res. Rep. Anan Tech. College.* Research Reports of the Anan Technical College. (Anan)
- Res. Rep. Kushiro Tech. College.* Research Reports. Kushiro Technical College. (Hokkaido)
- Res. Rep. Nagaoka Tech. College.* Research Reports of the Nagaoka Technical College. (Nagaoka)
- Res. Rep. Tokyo Electrical Engrg. Colls.* Research Reports of Tokyo Electrical Engineering College. (Tokyo)
- Rev. Acad. Ci. Madrid.* Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales de Madrid. (Madrid)
- Rev. Acad. Ci. Zaragoza.* Revista de la Academia de Ciencias Exactas, Físico-Químicas y Naturales de Zaragoza. (Zaragoza)
- Rev. Bio-Math.* Revue de Bio-Mathématique. (Antony)
- Rev. CETHEDC.* Revue du Centre d'Études Théoriques de la Détection et des Communications. (Paris)
- Rev. Ci. (Lima).* Revista de Ciencias. (Lima)
- Rev. Ci. Mat. Univ. Lourenço Marques Sér. A.* Revista de Ciências Matemáticas. Universidade de Lourenço Marques. Série A. (Lourenço Marques)
- Rev. Ci. Mat. Univ. Lourenço Marques Sér. B.* Revista de Ciências Matemáticas. Universidade de Lourenço Marques. Série B. (Lourenço Marques)
- Rev. Colombiana Mat.* Revista Colombiana de Matemáticas. (Bogotá)
- Rev. Econom. Statist.* The Review of Economics and Statistics. (Cambridge, Mass.)
- Rev. Fac. Ci. Univ. Coimbra.* Revista de Faculdade de Ciências da Universidade de Coimbra. (Coimbra)
- Rev. Française Automat. Informat. Recherche Opérationnelle.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. (Paris) (Continued as: *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Bleue*, *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Jaune*, *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge* and *Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Verte*)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Bleue.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Bleue. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle*)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Jaune.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Jaune. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle*)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Rouge.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Rouge. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle*)
- Rev. Française Automat. Informat. Recherche Opérationnelle Sér. Verte.* Revue Française d'Automatique, Informatique et Recherche Opérationnelle. Série Verte. (Paris) (Formerly: *Rev. Française Automat. Informat. Recherche Opérationnelle*)
- Rev. Histoire Sci. Appl.* Revue d'Histoire des Sciences et de leurs Applications. (Paris)
- *Rev. Internat. Philos.* Revue Internationale de Philosophie. (Wettersen)
- Rev. Mat. Sociedad Matemática Mexicana.* Revista Matemática. (Mexico City)
- Rev. Mat. Hisp.-Amer.* Revista Matemática Hispano-Americana. (Madrid)
- Rev. Mexicana Fis.* Revista Mexicana de Física. (Mexico City)
- Rev. Modern Phys.* Reviews of Modern Physics. (New York)
- Rev. Roumaine Math. Pures Appl.* Académie de la République Populaire Roumaine. Revue Roumaine de Mathématiques Pures et Appliquées. (Bucharest)
- Rev. Roumaine Phys.* Revue Roumaine de Physique. (Bucharest)
- Rev. Roumaine Sci. Tech. Sér. Électrotech. Énergét.* Revue Roumaine des Sciences Techniques. Série Electrotechnique et Énergétique. (Bucharest)
- Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* Revue Roumaine des Sciences Techniques. Série de Mécanique Appliquée. (Bucharest)
- Rev. Statist. Appl.* Revue de Statistique Appliquée. Centre d'Enseignement et de Recherche de Statistique Appliquée. (Paris)
- Rev. Tech. Thomson-CSF.* Revue Technique Thomson-CSF. (Paris)
- Rev. Un. Mat. Argentina.* Revista de la Unión Matemática Argentina. (Buenos Aires)
- Rice Univ. Studies.* Rice University Studies. (Houston, Tex.)
- Ricerca (Napoli).* La Ricerca. Rivista di Matematiche Pure ed Applicate. (Naples)
- Ricerche Mat.* Ricerche di Matematica. (Naples)
- Rīgas Politehn. Inst. Zinātn. Raksti.* Rīgas Politehniskais Institūts. Rīžskā Politehniskā Institūta Zinātniskie Raksti. (Riga)
- Riv. Mat. Univ. Parma.* Rivista di Matematica della Università di Parma. (Parma)
- Riv. Nuovo Cimento.* Rivista del Nuovo Cimento. (Bologna)
- Rīžsk. Inst. Inž. Graždan. Aviācij.* Rīžskā Institūta Inženieru Graždanu Aviācijas im. Leninskogo Komsomola. (Riga)

- Rjazzansk. Gos. Ped. Inst. Učen. Zap.* Rjazzanskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Ryazan)
- Rocky Mountain J. Math.* The Rocky Mountain Journal of Mathematics. (Missoula, Mont.)
- Rostov-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap.* Rostovskii-na-Donu Gosudarstvennyi Pedagogičeskii Institut. Fiziko-Matematičeskii Fakul'tet. Učenyje Zapiski. (Rostov-on-Don)
- Rostov-na-Donu Gos. Univ. Učen. Zap.* Rostovskii-na-Donu Gosudarstvennyi Universitet. Učenyje Zapiski. (Rostov-on-Don)
- Rozprawy Československé Akad. Věd Řada Mat. Přírod. Věd.* Rozprawy Československé Akademie Věd Řada Matematických a Přírodních Věd. (Prague)
- Rozprawy Elektrotech.* Polaka Akademia Nauk. Instytut Technologii Elektronowej. Rozprawy Elektrotechniczne. (Warsaw)
- Rozprawy Inst. Polaka Akademia Nauk. Instytut Podstawowych Problemów Techniki.* Rozprawy Inżynierskie. (Warsaw)
- Rozprawy Politech. Poznań.* Politechnika Poznańska. Rozprawy. (Poznań)
- RSB Ekonom. Promyšl. D.* Akademiya Nauk SSSR. Vsesojuznyi Institut Naučnoi i Tehničeskoj Informacii. Referativnyi Sbornik. Ekonomika Promyšlennosti. D. Primenenie Matematičeskikh Metodov v Ekonomičeskikh Issledovanijah i Planirovanii. (Moscow)
- Russian Math. Surveys.* Russian Mathematical Surveys. A translation of the survey articles and of selected biographical articles in *Uspehi Matematičeskikh Nauk*. (London) (Translation of *Uspehi Mat. Nauk*)
- RŽAutomat. Telemek. i Vyčisl. Tehn.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. Referativnyi Žurnal. Avtomatika, Telemekhanika i Vyčislitel'naja Tehnika. (Moscow)
- RŽFiz.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. Referativnyi Žurnal. Fizika. (Moscow)
- RŽKibernet.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. Referativnyi Žurnal. Kibernetika. (Moscow)
- RŽMat.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. Referativnyi Žurnal. Matematika. (Moscow)
- RŽMeh.* Akademiya Nauk SSSR. Institut Naučnoi Informacii. Referativnyi Žurnal. Mehanika. (Moscow)
- Sakharth. SSR Mecn. Akad. Gamot'hol. Centr. Šrom.* Sakharthvelos SSR Mecnierebatha Akademis Gamot'hlithi Centris Šromebi. (Tbilisi) (Also listed as: *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR*)
- Sakharth. SSR Mecn. Akad. Marthw. Sistem. Inst. Šrom.* Sakharthvelos SSR Mecnierebatha Akademia. Marthwis Sistemebis Instituti Šromebi. (Tbilisi) (Also listed as: *Trudy Inst. Sistem Upravlenija Akad. Nauk Gruzin. SSR*)
- Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.* Sakharthvelos SSR Mecnierebatha Akademia A. Razmadzia Sahelobis Tbilisis Matematikis Institutis. Šromebi. (Tbilisi) (Also listed as: *Akad. Nauk Gruzin. SSR Trudy Tbilis. Mat. Inst. Razmadze*)
- Sakharth. SSR Mecn. Akad. Moambe.* Sakharthvelos SSR Mecnierebatha Akademia Moambe. (Tbilisi) (Also listed as: *Soobšč. Akad. Nauk Gruzin. SSR*)
- Sankhyā Ser. A.* Sankhyā (Statistics). The Indian Journal of Statistics. Series A. (Calcutta)
- Sankhyā Ser. B.* Sankhyā (Statistics). The Indian Journal of Statistics. Series B. (Calcutta)
- Saratov. Gos. Ped. Inst. Učen. Zap.* Saratovskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Saratov)
- S.-B. Berlin. Math. Gesellsch.* Sitzungsberichte der Berliner Mathematischen Gesellschaft. (Berlin)
- S.-B. Heidelberger Akad. Wiss. Math.-Natur. Kl.* Sitzungsberichte der Heidelberger Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. (Heidelberg)
- S.-B. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* Sitzungsberichte der Sächsischen Akademie der Wissenschaften zu Leipzig. Mathematisch-Naturwissenschaftliche Klasse. (Berlin)
- Sb. Naučn. Soobšč. Dagestan. Gos. Univ.* Sbornik Naučnykh Soobščeniĭ. Dagestanskii Gosudarstvennyi Universitet im. V. I. Lenina (Makhachkala)
- Sb. Práci Ped. Fak. v Ostravě Ser. A.* Sborník Práci Pedagogické Fakulty v Ostravě. Seria A. (Ostrava)
- Sb. Práci Přírodověd. Fak. Univ. Palackého v Olomouci.* Sborník Práci Přírodovědecké Fakulty University Palackého v Olomouci. (Prague)
- Sb. Práci Vys. Školy Doprav. v Žilíně a Výzkum. Ústav. Doprav. v Praze.* Sborník Práci Vysoké Školy Dopravní v Žilíně a Výzkumného Ústavu Dopravního v Praze. (Prague)
- Sb. Trudov Odess. Elektrotehn. Inst. Svjazi.* Sbornik Trudov Odessakogo Elektrotehničeskogo Instituta Svjazi im. A.S. Popova. (Odessa)
- Sb. Trudov Vsesojuz. Zaočn. Politehn. Inst.* Sbornik Trudov Vsesojuznogo Zaočnogo Politehničeskogo Instituta. (Moscow)
- Sb. Voj. Akad. (Brno).* Sborník Vojenské Akademie Antonína Zápotockého. (Brno)
- Sb. Vysoké. Učení Tech. Brno.* Sborník Vysokého Učení Technického v Brně. (Brno)
- *Scand. Actuar. J.* Scandinavian Actuarial Journal. (Uppsala) (Formerly: *Skand. Aktuarietidskr.*)
- Schr. Math. Inst. Univ. Münster.* Schriftenreihe des Mathematischen Instituts der Universität Münster. (Münster)
- Sci. Abstracts China Sect. Math. Phys. Sci.* Institute of Scientific and Technical Information of China. Science Abstracts of China. Mathematical and Physical Sciences. (Peking)
- Sci. Amer.* Scientific American. (New York)
- *Sci. Bull. Fac. Ed. Nagasaki Univ.* Science Bulletin of the Faculty of Education. Nagasaki University. (Nagasaki)
- Sci. Hist.* Scientiarum Historia. Driemaandelijks Tijdschrift voor de Geschiedenis van de Geneeskunde, Wijskunde en Natuurwetenschappen. (Antwerp)
- Sci. Papers College Gen. Ed. Univ. Tokyo.* Scientific Papers of the College of General Education. University of Tokyo. (Tokyo)
- Sci. Rep. College Gen. Ed. Osaka Univ.* Science Reports. College of General Education. Osaka University. (Osaka)
- Sci. Rep. Fac. Ed. Gifu Univ. Natur. Sci.* Science Reports of the Faculty of Education. Gifu University. Natural Science. (Gifu)
- Sci. Rep. Hiroaki Univ.* Science Reports of the Hiroaki University. (Hiroaki)
- Sci. Rep. Kanazawa Univ.* The Science Reports of the Kanazawa University. (Kanazawa)
- Sci. Rep. Niigata Univ. Ser. A.* Science Reports of Niigata University. Series A. Mathematics. (Niigata)
- Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ.* Scientific Reports of the Research Institute for Theoretical Physics. Hiroshima University. (Hiroshima)
- Sci. Rep. Saitama Univ. Ser. A.* The Science Reports of the Saitama University. Series A. Mathematics, Physics and Chemistry. (Urawa)
- Sci. Rep. Tokyo Kyoiku Daigaku Sect. A.* Science Reports of the Tokyo Kyoiku Daigaku (Tokyo University of Education). Section A. (Tokyo)
- Sci. Rep. Tokyo Woman's Christian College.* Science Reports of Tokyo Woman's Christian College. (Tokyo)
- Sci. Rep. Yokohama Nat. Univ. Sect. I.* Science Reports of the Yokohama National University. Section I. Mathematics, Physics. (Yokohama)
- Sci. Rev.* Scientia Revuo. (Belgrade)
- Sci. Sinica.* Scientia Sinica. (Peking)
- Scientia (Milano).* Scientia. Rivista Internazionale di Scienze Scientifiche. (Milano)
- Scientia (Valparaiso).* Universidad Técnica Federico Santa María. Scientia. (Valparaiso)

- Scripta Fac. Sci. Natur. UJEP Brunensis—Math.* Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Mathematica. (Brno)
- Scripta Fac. Sci. Natur. UJEP Brunensis—Phys.* Scripta Facultatis Scientiarum Naturalium Universita J. E. Purkyně Brunensis. Physica. (Brno)
- Scripta Math.* Scripta Mathematica. A Quarterly Journal Devoted to the Philosophy, History, and Expository Treatment of Mathematics. (New York)
- Sem. Inst. Prikl. Mat. Annotac. Doklady.* Tbiliskii Universitet. Seminar Instituta Prikladnoi Matematiki. Annotacii Doklady. (Tbilisi) See *Gamogenez. Math. Inst. Sem. Moisen. Anotacie.*
- Semigroup Forum.* Semigroup Forum. (New York)
- Shengxue Xuebao.* See *Acta Acust. Sinica.*
- Shuxue Jinzhan.* Chinese Mathematical Society. Academia Sinica. Shuxue Jinzhan (Progress in Mathematics). (Peking)
- SIAM J. Appl. Math.* SIAM Journal on Applied Mathematics. (Philadelphia, Pa.)
- SIAM J. Comput.* SIAM Journal on Computing. (Philadelphia, Pa.)
- SIAM J. Control.* SIAM Journal on Control. (Philadelphia, Pa.)
- SIAM J. Math. Anal.* SIAM Journal on Mathematical Analysis. (Philadelphia, Pa.)
- SIAM J. Numer. Anal.* SIAM Journal on Numerical Analysis. (Philadelphia, Pa.)
- SIAM Rev.* SIAM Review. A Publication of the Society for Industrial and Applied Mathematics. (Philadelphia, Pa.)
- Siberian Math. J.* Siberian Mathematical Journal. (New York) (Translation of *Sibirsk. Mat. Zh.*)
- Sibirsk. Mat. Zh.* Akademija Nauk SSSR. Sibirskoe Otdelenie. Sibirskii Matematicheskii Zhurnal. (Moscow) (Translated as: *Siberian Math. J.*)
- Siemens Forsch.- und Entwicklungsber.* Siemens Forschungs- und Entwicklungsberichte. Research and Development Reports. (Berlin)
- Simon Stevin.* Simon Stevin. Wis- en Natuurkundig Tijdschrift. (Groningen)
- Skand. Aktuarietidskr.* Skandinavisk Aktuarietidskrift. (Uppsala) (Continued as: *Scand. Actuar. J.*)
- Skr. Norske Vid.-Akad. Oslo I.* Skrifter Utgitt av det Norske Videnskaps-Akademi i Oslo. I. Matematisk-Naturvidenskapelig Klasse. (Oslo)
- Smolensk. Gos. Ped. Inst. Učen. Zap.* Smolenskii Gosudarstvennyi Pedagogicheskii Institut. Uchenye Zapiski. Smolenskii Matematicheskii Sbornik. (Smolensk)
- Smolensk. Mat. Sb.* See *Smolensk. Gos. Ped. Inst. Učen. Zap.*
- Soc. Actuar. Trans.* Society of Actuaries. Transactions. (Chicago, Ill.)
- Soc. Sci. Fenn. Comment. Phys.-Math.* Societas Scientiarum Fennica. Commentationes Physico-Mathematicae. (Helsinki)
- Software—Practice and Experience.* Software. Practice and Experience. (London)
- Soobš. Akad. Nauk Gruzin. SSR.* Soobščenija Akademii Nauk Gruzinskoi SSR. (Tbilisi) See *Sakharth. SSR Mecn. Akad. Moambe.*
- Soobš. Vysš. Mat. Akademija Nauk SSSR.* Vyššitel'nyi Centr. Soobščenija po Vyššitel'noi Matematike. (Moscow)
- South African Statist. J.* South African Statistical Journal. (Cape Town)
- Soviet Aeronaut.* Soviet Aeronautics. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)
- Soviet Appl. Mech.* Soviet Applied Mechanics. (New York) (Translation of *Prikladna. Mek.*)
- Soviet Astronom. AJ.* Soviet Astronomy. AJ. A translation of *Astronomičeskii Zhurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Zh.*)
- Soviet Automat. Control.* Soviet Automatic Control. (New York) (Translation of *Avtomatika*)
- Soviet J. Nuclear Phys.* American Institute of Physics. Soviet Journal of Nuclear Physics. (New York) (Translation of *Jadernaja Fiz.*)
- Soviet J. Particles and Nuclei.* Soviet Journal of Particles and Nuclei. (New York) (Translation of *Fiz. Elementar. Častic. i Atom. Jadra*)
- Soviet Math. Dokl.* Soviet Mathematics. Doklady. A translation of the mathematics section of *Doklady Akademii Nauk SSSR*. (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- *Soviet Math. (Iz. VUZ).* Soviet Mathematics (Izvestija Vysših Učebnyh Zavedenij. Matematika). (New York) (Translation of: *Izv. Vysš. Učebn. Zaved. Matematika*)
- Soviet Physics Acoust.* Soviet Physics. Acoustics. (A translation of *Akustičeskii Zhurnal* of the Academy of Sciences of the USSR). (New York) (Translation of *Akust. Zh.*)
- *Soviet Physics—Collection.* Soviet Physics. Collection. (New York) (Translation of: *Litovsk. Fiz. Sb.*)
- Soviet Physics Dokl.* Soviet Physics. Doklady. A translation of the physics sections of *Doklady Akademii Nauk SSSR*. (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics J.* Soviet Physics Journal. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Fizika*)
- Soviet Physics JETP.* Soviet Physics. JETP. A translation of *Ž. Eksperimental'noi i Teoretičeskoj Fiziki* of the USSR. (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Uspekhi.* Soviet Physics. Uspekhi. A translation of *Uspehi Fizičeskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspehi Fiz. Nauk*)
- Spisy Ped. Fak. v Ostravě.* Spisy Pedagogické Fakulty v Ostravě. (Ostrava)
- Statist. Izv. NRB'lgarija.* D'ržavno Upravljenje za Informacija pri Ministerskija S'vet. Statističeski Izvestija. (Sofia)
- Statist. Problemy Upravljenja—Trudy Sem. Processy Optimal. Upravljenja. V. Sekoija.* Akademija Nauk Litovskoi SSR. Institut Fiziki i Matematiki. Institut Fiziko-Tehničeskikh Problem Energetiki. Litovskaja Territorial'naja Gruppy NKAU SSR Meždunarodnoj Federacii po Avtomatičeskomu Upravljeniju Litovskoi NII NTI i TEL. Statističeskie Problemy Upravljenja. Trudy Seminara "Processy Optimal'nogo Upravljenja. V. Sekoija. (Vilnius)
- Statist. Theory Method Abstracts.* Statistical Theory and Method Abstracts. (London) (Usually abbreviated as *STMA* in the text of *Math. Reviews*)
- Statistica (Bologna).* Statistica. (Bologna)
- Statistica Neerlandica.* Statistica Neerlandica. Orgaan van de Vereniging voor Statistiek. (The Hague)
- Statistika (Sofia).* D'ržavno Upravljenje za Informacija pri Ministerskija S'vet. (Sofia)
- STMA.* Statistical Theory and Method Abstracts. (London)
- Stochastic Processes Appl.* Stochastic Processes and their Applications. (Amsterdam)
- Stochastics.* Stochastics. (New York)
- Stud. Cerc. Econom.* Studii și Cercetări Economice. (Bucharest)
- Stud. Cerc. Fiz.* Studii și Cercetări de Fizică. (Bucharest)
- Stud. Cerc. Mat.* Studii și Cercetări Matematice. (Bucharest)
- Stud. Cerc. Mec. Apl.* Studii și Cercetări de Mecanică Aplicată. (Bucharest)
- Studia Automat.* Studia z Automatyki. Poznańskie Towarzystwo Przyjaciół Nauk. Wydział Nauk Technicznych. Prace Komisji Automatyki. (Poznań)
- Studia Leibnitiana.* Studia Leibnitiana. Vierteljahrsschrift für Philosophie und Geschichte der Wissenschaften. (Wiesbaden)

ABBREVIATIONS OF NAMES OF JOURNALS

Studia Logica. Polska Akademia Nauk. Institut Filozofii i Sociologii. *Studia Logica.* (Wroclaw)

Studia Math. Polska Akademia Nauk. Institut Matematyczny. *Studia Mathematica.* (Warsaw)

Studia Sci. Math. Hungar. Consilium Instituti Mathematici Academiae Scientiarum Hungaricae. *Studia Scientiarum Mathematicarum Hungarica.* (Budapest)

Studia Univ. Babeş-Bolyai Ser. Math.-Mech. *Studia Universitatis Babeş-Bolyai. Series Mathematica-Mechanica.* (Cluj)

Studia Univ. Babeş-Bolyai Ser. Phys. *Studia Universitatis Babeş-Bolyai. Series Physica.* (Cluj)

Studies in Appl. Math. *Studies in Applied Mathematics.* (Cambridge, Mass.)

Sudhoffs Arch. *Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften.* (Wiesbaden)

Sûgaku. Mathematical Society of Japan. *Sûgaku* (Mathematics). (Tokyo)

Sûgakushi Kenkyû. History of Mathematics Society of Japan. *Sûgakushi Kenkyû* (Journal of History of Mathematics of Japan). (Tokyo)

Su-hak kwa Mul-li. Academy of Science of the People's Democratic Republic of Korea. Research Center for Physics and Mathematics. *Su-hak kwa Mul-li* (Mathematics and Physics). (Pyongyang)

Sverdlovsk. Gos. Ped. Inst. Učen. Zap. *Sverdlovskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski.* (Sverdlovsk)

Synthese. *Synthese.* An International Journal for Epistemology, Methodology and Philosophy of Science. (Dordrecht)

Systems and Control. *Systems and Control* (Shisutemu to Seigyo). (Kyoto)

Systems-Computers-Controls. *Systems-Computers-Controls.* The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D.C.) (A partial translation of *Denshi Tenshin Gakkai Ronbunshi*. See also: *Elektron. Commun. Japan*)

Systems Theory Res. *Systems Theory Research.* (New York) (Translation of *Problemy Kibernet.*)

Sigma—Mat.-Közgazdasági Folyóirat. *Sigma. Matematikai-Közgazdasági Folyóirat.* (Budapest)

**Tadzik. Gos. Univ. Trudy Meh.-Mat. Fak.* *Tadzikskii Gosudarstvennyi Universitet im. V. I. Lenina. Trudy Mehaniko-Matematicheskogo Fakul'teta.* (Dushanbe)

Tadzik. Gos. Univ. Učen. Zap. *Tadzikskii Gosudarstvennyi Universitet im. V. I. Lenina. Učenyje Zapiski. Trudy Fiziko-Matematicheskogo Fakul'teta. Serija Matematicheskaja.* (Dushanbe)

Tadzik. S.-h. Inst. Trudy. *Tadzikskii Sel'skhozjaistvennyi Institut i Tadzikskii Gosudarstvennyi Universitet. Trudy.* (Dushanbe)

Taita J. Math. *Taita Journal of Mathematics.* (Taipei)

Tallin. Politehn. Inst. Toimetised Ser. A. *Tallinna Politehnilise Instituudi Toimetised. Seeria A.* (Tallin)

Tamkang J. Math. *Tamkang Journal.* (Taipei)

Tamkang J. Math. *Tamkang Journal of Mathematics.* (Taipei)

**Tanulmányok—MTA Számítástechn. Automat. Kutató Int.* *Budapest. Tanulmányok. MTA Számítástechnikai és Automatizálási Kutató Intézet Budapest.* (Budapest)

Táp San Toán-lý. *Ban Toán-lý. Ủy Ban Khoa Học Và Kỹ Thuật Nhà Nước.* (Hanoi)

Tartu Riikl. Ül. Toimetised. *Tartu Riikliku Ülikooli Toimetised. Učenyje Zapiski Tartuskogo Gosudarstvennogo Universiteta. Acta et Commentationes Universitatis Tartuensia. Matemaatika ja Mehhaanikaalased Töid. Trudy po Matematike i Mehanike.* (Tartu)

Tashkent. Gos. Ped. Inst. Učen. Zap. *Ministerstvo Prosvešdenija Uzbekskoi SSR. Tashkentskii Gosudarstvennyi Pedagogičeskii Institut im. Nizami. Učenyje Zapiski.* (Tashkent)

Tashkent. Gos. Univ. Naučn. Trudy. *Tashkentskii Gosudarstvennyi Universitet im V. I. Lenina. Naučnye Trudy.* (Tashkent)

Tashkent. Inst. Inž. Železnodorož. Transporta Trudy. *Tashkentskii Institut Inženerov Železnodorožnogo Transporta. Trudy.* (Tashkent)

Tashkent. Inst. Narod. Haz. Naučn. Zap. Mat. i Priłożen. *Tashkentskii Institut Narodnogo Khozjaistva. Naučnye Zapiski. Matematika i Priloženijah.* (Tashkent)

Tashkent. Politehn. Inst. Naučn. Trudy. *Ministerstvo Vyalego i Srednego Special'nogo Obrazovaniya. Tashkentskii Politehničeskii Institut. Naučnye Trudy. Novaja Serija.* (Tashkent)

Tashkent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. *Tashkentskii Tekstil'nyi Institut. Kafedra Vysšei Matematiki. Sbornik Naučno-Issledovatel'skikh Rabot. Serija Matematiki.* (Tashkent)

Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy. *Tbilisskii Gosudarstvennyi Universitet. Institut Prikladnoi Matematiki. Trudy.* (Tbilisi) See *Tbiliss. Saħelmə Univ. Gamogeneb. Math. Inst. Šrom.*

Tech. Rep. Inst. Atom. Energy Kyoto Univ. *Technical Reports of the Institute of Atomic Energy. Kyoto University.* (Kyoto)

Tech. Rep. Osaka Univ. *Technology Reports of the Osaka University.* (Osaka)

Technikgeschichte. *Technikgeschichte. Verein Deutscher Ingenieure.* (Düsseldorf)

Technometrics. *Technometrics. A Journal of Statistics for the Physical, Chemical and Engineering Sciences.* (Princeton, N.J.)

Tellus. *Svenska Geofysiska Föreningen. Tellus. A Quarterly Journal of Geophysics.* (Uppsala)

Tensor. *Tensor. New Series. The Tensor Society.* (Tokyo)

Teor. Funkcii Funkcional. Anal. i Priłożen. *Har'kovskii Ordena Trudovogo Krasnogo Znameni Gosudarstvennyi Universitet im. A. M. Gor'kogo. Teorija Funkcii, Funkcional'nyi Analiz i ih Priloženiya.* (Kharkov)

Teor. Verojatnost. i Mat. Statist. *Teorija Verojatnostei i Matematicheskaja Statistika.* (Kiev) (Translated as: *Theory Probability and Math. Statist.*)

Teor. Verojatnost. i Primenen. *Akademiya Nauk SSSR. Teorija Verojatnostei i ee Primeneniya.* (Moscow) (Translated as: *Theor. Probability Appl.*)

Teorema. *Teorema.* (Valencia)

Teoret. Elektrotehn. *L'vovskii Gosudarstvennyi Universitet. Teoreticheskaja Elektrotehnika.* (Lvov)

Teoret. i Prikladna Meh. *Harkivs'kii Deržavni Universitet im. O. M. Gor'kogo. Teoretična i Prikladna Mehanika.* (Kharkov)

Teoret. i Priłoż. Meh. *B'lgarska Akademiya na Naukite. Teoretična i Priložna Mehanika.* (Sofia)

Teoret. Mat. Fiz. *Akademiya Nauk SSSR. Teoreticheskaja i Matematicheskaja Fizika.* (Moscow) (Translated as: *Theoret. and Math. Phys.*)

Teoret. Prikl. Mat. *MVSSO URSR L'viva'kii Ordena Lenina Deržavni Universitet im. Iv. Franka. Teoretična i Prikladna Matematika.* (Lvov)

TESLA Electronics. *TESLA Electronics. Quarterly Review of Czechoslovak Electronics and Telecommunications.* (Prague)

Thalès. *Thalès. Recueil Annuel des Travaux de l'Institut d'Histoire des Sciences et des Techniques de l'Université de Paris.* (Paris)

Tbiliss. Saħelmə Univ. Gamogeneb. Math. Inst. Šrom. *Tbilisskii Saħelməpipo Universiteti Gamogenebithi Matematikis Instituti. Šromebi.* (Tbilisi) (Also listed as: *Tbiliss. Gos. Univ. Inst. Prikl. Mat. Trudy*)

Tbiliss. Univ. Šrom. A. *Tbilisskii Universitetis Šromebi. A. Fizika-Matematikisa de Sabunebismetvelo Mecnirobani.* (Tbilisi) (Also listed as: *Trudy Tbiliss. Univ. A*)

Theor. Probability Appl. *Theory of Probability and its Applications. An English translation of the Soviet journal Teorija Verojatnostei i ee Primeneniya.* (Philadelphia, Pa.) (Translation of *Teor. Verojatnost. i Primenen.*)

- Theoret. and Math. Phys.* Theoretical and Mathematical Physics. (New York) (Translation of *Teoret. Mat. Fiz.*)
- Theoret. Population Biology.* Theoretical Population Biology. (New York)
- Theoria.* Theoria. A Swedish Journal of Philosophy. (Lund)
- Theory and Decision.* Theory and Decision. An International Journal for Philosophy and Methodology of the Social Sciences. (Dordrecht)
- **Theory Probability and Math. Statist.* Theory of Probability and Mathematical Statistics. (Providence, R.I.) (Translation of: *Teor. Verojatnost. i Mat. Statist.*)
- Tiraspol. Gos. Ped. Inst. Učen. Zap.* Tiraspol'skii Gosudarstvennyi Pedagogičeskii Institut im. T. G. Ševčenko. Učenyje Zapiski. (Kishinev)
- Tjumen. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosveščeniija RSFSR. Tjumen'skii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Tyumen)
- **Točn. i Nadežn. Kibernet. Sistem.* Akademija Nauk Ukrainakoī SSR. Institut Elektrodimamiki. Točnost' i Nadežnost' Kibernetičeskikh Sistem. (Kiev)
- Tōhoku Math. J.* The Tōhoku Mathematical Journal. (Sendai)
- Tomsk. Gos. Univ. Učen. Zap.* Tomskii Gosudarstvennyi Universitet im. V. V. Kuľbyševa. Učenyje Zapiski. (Tomsk)
- Topology.* Topology. An International Journal of Mathematics. (Oxford)
- Trabajos Estadist.* Trabajos de Estadística. (Madrid)
- Trans. Amer. Math. Soc.* Transactions of the American Mathematical Society. (Providence, R.I.)
- Trans. ASME Ser. E. J. Appl. Mech.* American Society of Mechanical Engineers. Transactions of the ASME. Series E. Journal of Applied Mechanics. (New York)
- Trans. ASME Ser. G. J. Dynamic Systems, Measurement and Control.* American Society of Mechanical Engineers. Transactions of the ASME. Series G. Journal of Dynamic Systems, Measurement and Control. (New York)
- Trans. Moscow Math. Soc.* Transactions of the Moscow Mathematical Society. (Providence, R.I.) (Translation of *Trudy Moskov. Mat. Obšč.*)
- Trans. New York Acad. Sci.* Transactions of the New York Academy of Sciences. (New York)
- Trans. Roy. Soc. Canada.* Transactions of the Royal Society of Canada. Chemical, Mathematical and Physical Sciences. (Ottawa, Ont.)
- Trans. Roy. Soc. South Africa.* Transactions of the Royal Society of South Africa. (Cape Town)
- Transportation Sci.* Operations Research Society of America. Transportation Science Section. Transportation Science. (Baltimore, Md.)
- TRU Math.* TRU Mathematics. (Tokyo)
- Trudy Akad. Nauk Litov. SSR Ser. B.* Lietuvos TSR Mokslų Akademijos. Darbai. Serija B. Akademii Nauk Litovskoī SSR. Trudy. Serija B. (Vilnius)
- Trudy Arhangel. Lesotehn. Inst.* Trudy Arhangel'skogo Lesotekhnicheskogo Instituta im. V. V. Kuľbyševa. (Arkhangelsk)
- Trudy Bašk. S.-h. Inst.* Trudy Baškirkakogo Sel'skhozjaistvennogo Instituta. (Ufa)
- Trudy Doneck. Politehn. Inst.* Trudy Doneckogo Politehnicheskogo Instituta. (Doneck)
- Trudy Fiz. Inst. Lebedev.* Akademija Nauk SSSR. Trudy Fizičeskogo Instituta im. P. N. Lebedeva. (Moscow) (Translated as: *Proc. (Trudy) P. N. Lebedev Phys. Inst.*)
- Trudy Frunze. Politehn. Inst.* Ministerstvo Narodnogo Obrazovaniija Kirgizakoī SSR. Frunzenskii Politehnicheskii Institut. Trudy Frunzenskogo Politehnicheskogo Instituta. (Frunze)
- Trudy Geometr. Sem.* Akademija Nauk SSSR. Institut Naučnoi Informacii. VINITI. Trudy Geometričeskogo Seminara. (Moscow)
- Trudy Glavn. Geofiz. Observator.* Glavnaja Geofizičeskaja Observatorija im. A. I. Voelkova. Trudy. (Leningrad)
- Trudy Inst. Istor. Estestvozn. Tehn.* Akademija Nauk SSSR. Trudy Instituta Istorii Estestvoznaniija i Tehniki. (Moscow)
- Trudy Inst. Sistem Upravljenija Akad. Nauk Gruz. SSR.* Akademija Nauk Gruzinskoi SSR. Trudy Instituta Sistem Upravljenija. See Sakharth. SSR Mecn. Akad. Marthv. Sistem. Inst. Šrom.
- Trudy Inst. Teoret. Astronom.* Akademija Nauk SSSR. Trudy Instituta Teoretičeskoi Astronomii. (Moscow)
- Trudy Irkutsk. Gos. Univ.* Trudy Irkutskogo Gosudarstvennogo Universiteta. (Irkutsk)
- Trudy Kaliningrad. Gos. Univ. Differencial'naja Geometr. Mnogobraz. Figur.* Trudy Kaliningradskogo Gosudarstvennogo Universiteta. Differencial'naja Geometrija Mnogobrazii Figur. (Kaliningrad)
- Trudy Kazan. Aviacion. Inst.* Trudy Kazanskogo Aviacionnogo Instituta. Matematika i Mehanika. (Kazan)
- Trudy Kazan. S.-h. Inst.* Trudy Kazanskogo Sel'skhozjaistvennogo Instituta. (Kazan)
- Trudy Kirgiz. Gos. Univ. Ser. Mat. Nauk.* Ministerstvo Narodnogo Obrazovaniija Kirgizakoī SSR. Kirgizskii Gosudarstvennyi Universitet. Trudy Kirgizskogo Gosudarstvennogo Universiteta. Serija Matematičeskikh Nauk. (Frunze)
- Trudy Kolomen. Filiala Vsesojuz. Zaočn. Politehn. Inst.* Vsesojuznyi Zaočnyi Politehnicheskii Institut. Trudy Kolomenskogo Filiala. (Moscow)
- **Trudy Komi Filiala Akad. Nauk SSSR.* Trudy Komi Filiala Akademii Nauk SSSR. (Syktyvkar)
- Trudy Leningrad. Tehnolog. Inst. Holod. Promyšl.* Trudy Leningradskogo Tehnologičeskogo Instituta Holodil'noi Promyšlennosti. (Leningrad)
- Trudy Mat. Inst. Steklov.* Akademija Nauk Sojuza Sovetskikh Socialističeskikh Respublik. Trudy Matematičeskogo Instituta im. V. A. Steklova. (Moscow) (Translated as: *Proc. Steklov Inst. Math.*)
- Trudy Metrolog. Inst. SSSR.* Vsesojuznyi Naučno-Issledovatel'skii Institut Metrologii im. D. I. Mendeleeva. Tbiliskii Filial. Trudy Metrologičeskikh Institutov SSSR. (Tbilisi)
- Trudy Moskov. Elektrotehn. Inst. Svjazi (MEIS).* Trudy Moskovskogo Elektrotehnicheskogo Instituta Svjazi. Trudy MEIS. (Moscow)
- Trudy Moskov. Inst. Radiotehn. Elektron. i Avtomat.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniija RSFSR. Trudy Moskovskogo Instituta Radiotekhniki, Elektroniki i Avtomatiki. (Moscow)
- Trudy Moskov. Mat. Obšč.* Trudy Moskovskogo Matematičeskogo Obščestva. (Moscow) (Translated as: *Trans. Moscow Math. Soc.*)
- Trudy Moskov. Orden. Lenin. Energet. Inst.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniija RSFSR. Trudy Moskovskogo Ordена Lenina Energetičeskogo Instituta. (Moscow)
- Trudy Naučn. Ob'ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* Ministerstvo Prosveščeniija RSFSR. Habarovskii Gosudarstvennyi Pedagogičeskii Institut. Trudy Naučnogo Ob'edineniija Prepodavatelei Fiziko-Matematičeskikh Fakul'tetov Pedagogičeskikh Institutov Dal'nego Vostoka. (Khabarovsk) (Continued as: *Dal'nevostoñ. Mat. Sb.*)
- Trudy Naučno-Issled. Inst. Avtomatizacii Proizvod. Processov Him. Promyšl. i Cvet. Metallurgii.* Trudy Naučno-Issledovatel'skogo Instituta Avtomatizacii Proizvodstvennykh Processov Himičeskoi Promyšlennosti i Cvetnoi Metallurgii. "NIIA Avtomatika". (Kirovakan)
- Trudy Nikolaev. Korablestroitel. Inst.* Nikolaevskii Ordena Trudovogo Krasnogo Znamenii Korablestroitel'nyi Institut im. Admirala S. O. Makarova. Trudy Nikolaevskogo Korablestroitel'nogo Instituta. (Nikolaev)
- Trudy Otd. Ekonom. Issled. Burjat. Filiala Sibirsk. Otdel. Akad. Nauk SSSR.* Trudy Otdela Ekonomičeskikh Issledovaniij Burjatskogo Filiala Sibirskogo Otdeleniija Akademii Nauk SSSR. (Ulan Ude)

ABBREVIATIONS OF NAMES OF JOURNALS

Trudy Prižval'sk. Gos. Ped. Inst. Ministerstvo Narodnogo Obrazovaniya Kirgizskoi SSR. *Trudy Prižval'skogo Gosudarstvennogo Pedagogičeskogo Instituta.* (Prižval'sk)

Trudy Rjazan. Radiotehn. Inst. Ministerstvo Vyššego i Srednego Special'nogo Obrazovaniya RSFSR. *Trudy Rjazanskogo Radio-tehničeskogo Instituta.* (Ryazan)

Trudy Samarkand. Gos. Univ. Ministerstvo Vyššego i Srednego Special'nogo Obrazovaniya UzSSR. *Trudy Samarkandskogo Gosudarstvennogo Universiteta im. A. Navoi.* (Samarkand)

Trudy Saratov. Inst. Meh. S.-h. *Trudy Saratovskogo Instituta Mehani-zacii Sel'skogo Hoziastva.* (Saratov)

Trudy Sem. Kraev. Zadačam. *Trudy Seminara po Kraevym Zadačam.* (Kazan)

Trudy Sem. Mat. Fiz. Nelinein. Koleban. Akademija Nauk Ukrain-skoj SSR. Institut Matematiki. *Trudy Seminara po Matemati-českoj Fizike i Nelineinym Kolebanijam.* (Kiev)

Trudy Sem. Teor. Differencial. Uravnenij s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby. *Trudy Seminara po Teorii Differencial'nyh Uravnenij s Otklonjajuščimsja Argumentom. Universitet Družby Narodov im. Patrisa Lumumby.* (Moscow)

Trudy Sem. Vektor. Tensor. Anal. *Trudy Seminara po Vektornomu i Tenzornomu Analizu s ih Priloženijami k Geometrii, Mehanike i Fizike.* (Moscow)

Trudy Sibirek. Fiz. Tehn. Inst. *Trudy Sibirskogo Fiziko-Tehničeskogo Instituta imeni Akademika V. D. Kuznecova.* (Tomak)

Trudy Tadžik. Politehn. Inst. *Trudy Tadžikskogo Politehničeskogo Instituta.* (Dushanbe)

Trudy Taškent. Gos. Univ. *Trudy Taškentskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Matematika.* (Tashkent) See *Taškent. Gos. Univ. Naučn. Trudy.*

Trudy Tbiliss. Univ. A. *Trudy Tbilisskogo Universiteta. A. Fiziko-Matematičeskie i Estestvennye Nauki.* (Tbilisi) See *Tbilis. Univ. Šrom. A.*

Trudy Tomsk. Gos. Univ. *Trudy Tomskogo Gosudarstvennogo Uni-versiteta im. V. V. Kuľbyševa.* (Tomak)

Trudy Univ. Družby Narod. *Trudy Universiteta Družby Narodov im. Patrisa Lumumby.* (Moscow)

Trudy Vsesojuz. Naučno-Issled. Inst. Elektromeh. *Trudy Vsesojuznogo Naučno-Issledovatel'skogo Instituta Elektromehaniki.* (Moscow)

Trudy Vsesojuz. Zaočn. Energet. Inst. *Trudy Vsesojuznogo Zaočnogo Energetičeskogo Instituta.* (Moscow)

**Trudy VTI.* Ministerstvo Energetiki i Elektrifikacii SSSR. Vsesojuznyj Davyđy Ordена Trudovogo Krasnogo Znamenii Teplotehni-českiĭ Naučno-Issledovatel'skiĭ Institut im. F. Ė. Dzeržinskogo. *Trudy Vsesojuznogo Teplotehničeskogo Instituta.* (Moscow)

Trudy Vyčisl. Centra Akad. Nauk Armjan. SSR i Erevan. Gos. Univ. Mat. Voprosy Kibernet. i Vyčisl. Tehn. *Trudy Vyčislitel'nogo Centra Akademii Nauk Armjanskoi SSR i Erevanskogo Gosudarstvennogo Universiteta. Matematičeskie Voprosy Kibernetiki i Vyčislitel'noi Techniki.* (Erevan)

Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR. Akademija Nauk Gruzinskoi SSR. *Trudy Vyčislitel'nogo Centra.* (Tbilisi) See *Sakharth. SSR Mecn. Akad. Gamotol. Centr. Šrom.*

Trudy Vyčisl. Centra Tartu. Gos. Univ. *Trudy Vyčislitel'nogo Centra. Tartuskii Gosudarstvennyi Universitet.* (Tartu)

Tul. Gos. Ped. Inst. Učen. Zap. Mat. Kaf. *Tul'skii Gosudarstvennyi Pedagogičeskii Institut im. L. N. Tolstogo. Učenyje Zapiski Mate-matičeskikh Kafedr.* (Tula)

Turkmen. Gos. Univ. Učen. Zap. Ministerstvo Narodnogo Obrazo-vaniya TSSR. *Turkmenkii Gosudarstvennyi Univeritet im. A. M. Gor'kogo. Učenyje Zapiski.* (Ashkhabad)

Tydesk. Naturwetenskap. Die Suid-Afrikaanse Akademie vir Wet-en-skap en Kuns. *Tydskrif vir Natuurwetenskappe.* (Pretoria)

U.S.S.R. Computational Math. and Math. Phys. U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Z. Vyčisl. Mat. i Mat. Fiz.*)

Überblicke Math. *Überblicke Mathematik.* (Mannheim)

Učen. Zap. Erevan. Gos. Univ. Estestv. Nauki. *Učenyje Zapiski Erevanskogo Gosudarstvennogo Universiteta. Estestvennye Nauki.* (Erevan)

Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk. Ministerstvo Prosvetšeniya RSFSR. *Karel'skii Pedagogičeskii Institut. Učenyje Zapiski. Serija Fiziko-Matematičeskikh Nauk.* (Petrozavodsk)

Učen. Zap. Statist. Akademija Nauk SSSR. Central'nyi Ėkonomiko-Matematičeskii Institut. *Učenyje Zapiski po Statistike.* (Moscow)

UIT Rep. *UIT Report.* Ulsan Institute of Technology. (Ulsan) (Also listed as: *WIT Rep.*)

Ukrain. Fiz. Ž. Akademija Nauk Ukrain'skoi RSR. *Viddil Fiziki. Ukrain'skii Fizičnii Žurnal.* (Kiev) (Ukrainian edition)

Ukrain. Fiz. Ž. Akademija Nauk Ukrainskoi SSR. *Otdelenie Fiziki. Ukrainskii Fizičeskii Žurnal.* (Kiev) (Russian edition)

Ukrain. Geometr. Sb. Ministerstvo Vyššego i Srednego Special'nogo Obrazovaniya USSR. *Ukrainskii Geometričeskii Sbornik.* (Khar-kov)

Ukrain. Mat. Ž. Akademija Nauk Ukrainskoi SSR. Institut Matematiki. *Ukrainskii Matematičeskii Žurnal.* (Kiev) (Trans-lated as: *Ukrainian Math. J.*)

Ukrainian Math. J. *Ukrainian Mathematical Journal.* (New York) (Translation of *Ukrain. Mat. Ž.*)

Ul'janovsk. Gos. Ped. Inst. Učen. Zap. *Ul'janovskii Gosudarstvennyi Pedagogičeskii Institut im. I. N. Ul'janova. Učenyje Zapiski.* (Saratov)

Univ. Allahabad Studies. *University of Allahabad Studies.* (Alla-habad)

Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Elektron. Telekomun. Automat. *Univerzitet u Beogradu Publikacije Elektrotehničkog Fakulteta. Serija Elektronika, Telekomunikacije, Automatika.* (Belgrade)

Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. *Univerzitet u Beogradu. Publikacije Elektrotehničkog Fakulteta. Serija Mate-matika i Fizika.* (Belgrade)

Univ. Beograd. Radovi Zavoda za Fiz. *Univerzitet u Beogradu Zavod za Fiziku Tehničkih Fakulteta u Beogradu. Radovi Zavoda za Fiziku.* (Belgrade)

Univ. Beograd. Zb. Radova Građevin. Fak. *Univerzitet u Beogradu. Zbornik Radova Građevinskog Fakulteta u Beogradu.* (Belgrade)

Univ. Central Venezuela Bol. Fac. Ing. *Universidad Central de Venezuela. Boletín de la Facultad de Ingeniería.* (Caracas)

Univ. Genova Pubbl. Ist. Mat. *Università di Genova. Pubblicazioni dell'Istituto di Matematica.* (Genoa)

Univ. Habana. *Universidad de la Habana.* (Havana)

Univ. Lisboa Revista Fac. Ci. A. *Universidade de Lisboa. Revista da Faculdade de Ciências. 2.ª Série. A. Ciências Matemáticas.* (Lisbon)

Univ. Madrid Publ. Sec. Mat. Fac. Ci. *Universidad de Madrid. Publicaciones de la Sección de Matemática de la Facultad de Ciencias.* (Madrid)

Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat. *Universidad Nacional de Ingeniería. Instituto de Matemáticas Puras y Aplicadas. Notas de Matemáticas.* (Lima)

Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Segunda Rev. (or Contrib.) *Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Segunda. Revista (or Contribuciones).* (La Plata)

Univ. Nac. La Plata Publ. Fac. Ci. Fisicomat. Serie Tercera Publ. Esp. *Universidad Nacional de La Plata. Publicaciones de la Facultad de Ciencias Fisicomatemáticas. Serie Tercera. Publicaciones Especiales.* (La Plata)

- Univ. Nac. Tucumán Rev. Ser. A.* Universidad Nacional de Tucumán. Facultad de Ciencias Exactas y Tecnología. Revista. Serie A. Matemáticas y Física Teórica. (Tucumán)
- Univ. Palermo Ann. Fac. Econom. e Commercio.* Università di Palermo. Annali della Facoltà di Economia e Commercio. (Palermo)
- Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadist.* Universidad de la República. Facultad de Ingeniería y Agrimensura. Montevideo-Uruguay. Publicaciones del Instituto de Matemática y Estadística. (Montevideo)
- Univ. Roorkee Res. J.* University of Roorkee. Research Journal. (Roorkee)
- Univ. Studies Math.* University Studies in Mathematics. (Jaipur)
- Univ. u Novom Sadu Zb. Rad. Prirod.-Mat. Fak.* Univerzitet u Novom Sadu. Zbornik Radova Prirodno-Matematičkog Fakulteta. (Novi Sad)
- Univ. Adama Mickiewicza w Poznan. Prace Wydz. Mat. Fiz. Chem. Ser. Mat.* Uniwersytet im. Adama Mickiewicza w Poznaniu. Prace Wydziału Matematyki, Fizyki i Chemii. Seria Matematyka. (Poznań)
- Univ. Śląski w Katowicach—Prace Mat.* Uniwersytet Śląski w Katowicach. Prace Matematyczne. (Katowice) (Formerly: *Wyz. Szkol. Ped. w Katowicach—Zeszyty Nauk. Sekc. Mat.*) (Continued as: *Univ. Śląski w Katowicach Prace Naukowe—Prace Mat.*)
- *Univ. Śląski w Katowicach Prace Naukowe.* Uniwersytet Śląski w Katowicach. Prace Naukowe. (Katowice)
- *Univ. Śląski w Katowicach Prace Naukowe—Prace Mat.* Uniwersytet Śląski w Katowicach. Prace Naukowe. Prace Matematyczne. (Katowice) (Formerly: *Univ. Śląski w Katowicach—Prace Mat.*)
- Upravljajemye Sistemy.* Upravljajemye Sistemy. Institut Matematiki, Institut Kataliza Sibirskogo Otdelenija Akademii Nauk SSSR. (Novosibirsk)
- Ural. Gos. Univ. Mat. Zap.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya RSFSR. Ural'skii Gosudarstvennyi Universitet im. A. M. Gor'kogo. Ural'skoe Matematicheskoe Obščestvo. Matematicheskie Zapiski. (Sverdlovsk)
- Ural. Politehn. Inst. Sb.* Ministerstvo Prosveščeniya RSFSR. Ural'skii Politehnicheskii Institut im. S. M. Kirova. Sbornik. (Sverdlovsk)
- Urdmurt. i Glazov. Ped. Inst. Učen. Zap.* Urdmurtakogo i Glazovskogo Pedagogičeskogo Instituta Učenyje Zapiski. (Izhevsk) (May also appear as: *Urdmurt. Ped. Inst. Učen. Zap.*)
- Urdmurt. Ped. Inst. Učen. Zap.* Urdmurtakogo Pedagogičeskogo Instituta Učenyje Zapiski. (Izhevsk) (May also appear as: *Urdmurt. i Glazov. Ped. Inst. Učen. Zap.*)
- Uspehi Fiz. Nauk.* Akademija Nauk SSSR. Uspehi Fizičeskikh Nauk. (Moscow) (Translated as: *Soviet Physics Uspekhi*)
- Uspehi Mat. Nauk.* Akademija Nauk SSSR i Moskovskoe Matematicheskoe Obščestvo. Uspehi Matematicheskikh Nauk. (Moscow) (Selected articles translated as: *Russian Math. Surveys*)
- Utilitas Math.* Utilitas Mathematica. A Canadian Journal of Applied Mathematics, Computer Science, and Statistics. (Winnipeg, Man.)
- V. I. Lenin. Sakharth. Politehn. Inst. Šrom.* V. I. Leninis Sahelobis Šromis Čitheli Drošis Ordenosani Sakharthvelos Politehnikuri Instituti. Šromebi. (Tbilisi) (Also listed as: *Gruzin. Politehn. Inst. Trudy*)
- Verh. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl.* Wetensch. Verhandlungen van de Koninklijke Vlaamse Academie voor Wetenschappen, Letteren en Schone Kunsten van België. Klasse der Wetenschappen. (Brussels)
- Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk.* Vesci Akademii Navuk BSSR. Seriya Fizika-Matematyčnyh Navuk. (Minsk)
- Vestnik Akad. Nauk Kazah. SSR.* Vestnik Akademii Nauk Kazahskoi SSR. (Alma-Ata)
- Vestnik Akad. Nauk SSSR.* Vestnik Akademii Nauk SSSR. (Moscow)
- Vestnik Beloruss. Gos. Univ. Ser. I.* Vestnik Belorusskogo Gosudarstvennogo Universiteta im. V. I. Lenina. Naŭnyj Zurnal. Serija I. Matematika, Fizika, Mehanika. (Minsk)
- Vestnik Har'kov. Gos. Univ.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya USSR. Vestnik Har'kovskogo Gosudarstvennogo Universiteta. Serija Mehaniko-Matematičeskaja. Zapiski Mehaniko-Matematičeskogo Fakulteta i Har'kovskogo Matematicheskogo Obščestva. (Kharkov)
- Vestnik Har'kov. Politehn. Inst.* Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya USSR. Vestnik Har'kovskogo Politehnicheskogo Instituta. (Kharkov)
- Vestnik Leningrad. Univ.* Vestnik Leningradskogo Universiteta. (Leningrad) (Continued as: *Vestnik Leningrad. Univ. Fiz. Him. and Vestnik Leningrad. Univ. Mat. Meh. Astronom.*)
- Vestnik Leningrad. Univ. Fiz. Him.* Vestnik Leningradskogo Universiteta. Fizika, Himija. (Leningrad) (Formerly: *Vestnik Leningrad. Univ.*)
- Vestnik Leningrad. Univ. Mat. Meh. Astronom.* Vestnik Leningradskogo Universiteta. Matematika, Mehanika, Astronomija. (Leningrad) (Formerly: *Vestnik Leningrad. Univ.*)
- *Vestnik Leningrad Univ. Math.* Vestnik Leningrad University. Mathematics. (Providence, R.I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)
- Vestnik Moskov. Univ. Ser. I Mat. Meh.* Vestnik Moskovskogo Universiteta. Serija I. Matematika, Mehanika. (Moscow) (Mathematics section translated as: *Moscow Univ. Math. Bull.*)
- Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* Vestnik Moskovskogo Universiteta. Serija III. Fizika, Astronomija. (Moscow) (Translated as: *Moscow Univ. Phys. Bull.*)
- Vestnik Statist.* Vestnik Statistiki. (Moscow)
- Vidya.* Vidya (Knowledge). The Journal of the Gujarat University. (Ahmedabad)
- Vierteljschr. Naturforsch. Gesellsch. Zürich.* Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich. (Zürich)
- Việt Nam Dân Chủ Cộng Hòa Ủy Ban Khoa Học Nhà Nước.* See *Acta Sci. Vietnam.*
- Vijnana Parishad Anusandhan Patrika.* Vijana Parishad Anusandhan Patrika [The Research Journal of the Hindu Science Academy]. (Allahabad)
- Vikram—Quart. Res. J.* Vikram Univ. The Vikram. Quarterly Research Journal of Vikram University. (Ujjain)
- Virginia J. Sci.* Virginia Journal of Science. (Richmond, Va.)
- Visnik Kiiv. Univ.* Visnik Kiiv'skogo Universitetu. (Kiev) (Continued as: *Visnik Kiiv. Univ. Ser. Mat. Meh.*)
- *Visnik Kiiv. Univ. Ser. Mat. Meh.* Visnik Kiiv'skogo Universitetu. Serija Matematiki ta Mehaniki. (Kiev) (Formerly: *Visnik Kiiv. Univ.*)
- Visnik L'viv. Derž. Univ. Ser. Meh.-Mat.* Ministerstvo Viššoi i Sereďnoi Special'noi Osvity URSSR. Visnik L'viv'skogo Ordona Lenina Deržavnogo Universitetu im. Ivana Franka. Serija Mehaniko-Matematična. (Lvov)
- Visnik L'viv. Politehn. Inst.* Visnik L'viv'skogo Politehnicheskogo Instituta. (Lvov)
- Visš Ped. Inst. Plovdiv Naučn. Trud.* Visš Pedagogičeskii Institut Plovdiv. Naučni Trudove. (Plovdiv) (Continued as: *Plovdiv. Univ. Naučn. Trud.*)
- Vladimir. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosveščeniya RSFSR. Vladimirska Gosudarstvennyi Pedagogičeskii Institut im. P. I. Lebedeva-Poljanskogo. Učenyi Zapiski. (Vladimir)
- Vladimir. Večn. Politehn. Inst. Sb. Naučn. Trudov.* Vladimirska Večernyi Politehnicheskii Institut. Sbornik Naučnyh Trudov. (Vladimir)
- Volgograd. Gos. Ped. Inst. Učen. Zap.* Ministerstvo Prosveščeniya RSFSR. Volgogradskogo Gosudarstvennogo Pedagogičeskogo Instituta im. A. S. Serafimoviča. Učenyje Zapiski. (Volgograd)

Vologod. Gos. Ped. Inst. Učen. Zap. Vologodskii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Vologda) (May also appear as: *Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.*)

Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap. Vologodskii Gosudarstvennyi Pedagogičeskii Institut. Čerepoveckii Gosudarstvennyi Pedagogičeskii Institut. Učenyje Zapiski. (Vologda) (May also appear as: *Vologod. Gos. Ped. Inst. Učen. Zap.*)

Volž. Mat. Sb. Ministerstvo Prosveščeniya RSFSR. Kuibyševskii Gosudarstvennyi Pedagogičeskii Institut im. V. V. Kuibyševa. Volžskii Matematičeskii Sbornik. (Kuybyshev)

Voprosy Istor. Estestvoznani. i Tehn. Akademija Nauk SSSR. Voprosy Istorii Estestvoznaniya i Tehniki. (Moscow)

Voprosy Kibernet. Voprosy Kibernetiki. Akademija Nauk Uzbekakoī SSR. (Tashkent) (Continuation in part of *Voprosy Kibernet. Vyšiel. Mat.*)

Voprosy Kibernet. Vyšiel. Mat. Akademija Nauk Uzbekakoī SSR. Institut Kibernetiki s Vyšislitel'nyim Centrom. Voprosy Kibernetiki i Vyšislitel'noi Matematiki. (Tashkent) (Continued in part as: *Voprosy Kibernet. and Voprosy Vyšiel. i Prikl. Mat.*)

Voprosy Vyšiel. i Prikl. Mat. Akademija Nauk Uzbekakoī SSR. Trudy Ordена Trudovogo Krasnogo Znamenii Instituta Kibernetiki s Vyšislitel'nyim Centrom. Voprosy Vyšislitel'noi i Prikladnoi Matematiki. (Tashkent) (Continuation in part of *Voprosy Kibernet. Vyšiel. Mat.*)

Voronež. Gos. Univ. Sb. Naučn. Trudov Fak. Prikl. Mat. Meh. VGU. Ministerstvo Vysshego i Srednego Special'nogo Obrazovaniya RSFSR. Voronežskii Ordена Lenina Gosudarstvennyi Universitet im. Leninskogo Komsomola. Sbornik Naučnyh Trudov Fakulteta Prikladnoi Matematiki i Mehaniki. (Voronezh)

Voronež. Gos. Univ. Trudy Mat. Fak. Voronežskii Gosudarstvennyi Universitet im. Leninskogo Komsomola. Trudy Matematičeskogo Fakulteta. (Voronezh)

Voronež. Gos. Univ. Trudy Naučn.-Issled. Inst. Mat. VGU. Voronežskii Ordена Lenina Gosudarstvennyi Universitet im. Leninskogo Komsomola. Trudy Naučno-Issledovatel'skogo Instituta Matematiki. (Voronezh)

Voronež. Gos. Univ. Trudy Sem. Funkcional. Anal. Ministerstvo Vysshego Obrazovaniya SSSR. Voronežskii Gosudarstvennyi Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronezh)

Voronež. Tehn. Inst. Trudy. Voronežskii Tehnologičeskii Institut. Trudy. (Voronezh)

Voronež. Univ. Trudy Sem. Funkcional. Anal. Voronežskii Universitet. Trudy Seminara po Funkcional'nomu Analizu. (Voronezh)

**Vsesojuz. Zaočn. Politehn. Inst. Sb. Trudov.* Vsesojuznyi Zaočnyi Politehničeskii Institut. Sbornik Trudov. (Moscow)

Vyšiel. Mat. i Vyšiel. Tehn. (Kharkov). Sbornik Naučnyh Trudov. Fiziko-Tehničeskii Institut Nizkikh Temperatur Akademii Nauk Ukrainakoī SSR. Vyšislitel'naja Matematika i Vyšislitel'naja Tehnika. (Kharkov)

Vyšiel. Prikl. Mat. (Kiev). Kievskii Gosudarstvennyi Universitet. Mežvedomstvennyi Naučnyi Sbornik. Vyšislitel'naja i Prikladnaja Matematika. (Kiev)

Vyšiel. Sistemy. Akademija Nauk SSSR. Sibirskoe Otdelenie. Institut Matematiki. Vyšislitel'nye Sistemy. Sbornik Trudov. (Novosibirsk)

Wiadom. Mat. Roczniki Polskiego Towarzystwa Matematycznego. Seria II. Wiadomości Matematyczne. (Warsaw)

Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg. Wissenschaftliche Beiträge der Martin-Luther-Universität Halle-Wittenberg. (Halle-Wittenberg)

Wiss. Z. Ernst-Moritz-Arndt-Univ. Greifswald Math.-Natur. Reihe Wissenschaftliche Zeitschrift der Ernst-Moritz-Arndt-Universität Greifswald. Mathematisch-Naturwissenschaftliche Reihe. (Greifswald)

Wiss. Z. Friedrich-Schiller-Univ. Jena. Wissenschaftliche Zeitschrift der Friedrich-Schiller-Universität Jena. (Jena)

Wiss. Z. Hochsch. Verkehrswesen "Friedrich List" Dresden. Wissenschaftliche Zeitschrift der Hochschule für Verkehrswesen "Friedrich List" in Dresden. Die Anwendung Mathematischer Methoden im Transport- und Nachrichtenwesen. (Dresden)

Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Humboldt-Universität Berlin. Mathematisch-Naturwissenschaftliche Reihe. (Berlin)

Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Karl-Marx-Universität Leipzig. Mathematisch-Naturwissenschaftliche Reihe. (Leipzig)

Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Martin-Luther-Universität Halle-Wittenberg. Mathematisch-Naturwissenschaftliche Reihe. (Halle-Wittenberg)

Wiss. Z. Pädagog. Hochschule. "Karl Liebknecht" Potsdam. Wissenschaftliche Zeitschrift der Pädagogischen Hochschule "Karl Liebknecht" Potsdam. (Potsdam) (Formerly: *Wiss. Z. Pädagog. Hochschule. Potsdam Math.-Natur. Reihe*)

Wiss. Z. Pädagog. Hochschule. Potsdam Math.-Natur. Reihe. Wissenschaftliche Zeitschrift der Pädagogischen Hochschule Potsdam. Mathematisch-Naturwissenschaftliche Reihe. (Potsdam) (Continued as: *Wiss. Z. Pädagog. Hochschule. "Karl Liebknecht" Potsdam*)

Wiss. Z. Techn. Hochschule. Chem. Leuna-Merseburg. Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie Leuna-Merseburg. (Leuna-Merseburg)

Wiss. Z. Techn. Hochschule. Ilmenau. Wissenschaftliche Zeitschrift der Technischen Hochschule Ilmenau. (Ilmenau)

Wiss. Z. Techn. Hochschule. Karl-Marx-Stadt. Wissenschaftliche Zeitschrift der Technischen Hochschule Karl-Marx-Stadt. (Karl-Marx-Stadt)

Wiss. Z. Techn. Univ. Dresden. Wissenschaftliche Zeitschrift der Technischen Universität Dresden. (Dresden)

WIT Rep. WIT Report. Wulan Institute of Technology. (Ulan) See *UIT Rep.*

Wyż. Szkoł. Ped. Krakow. Rocznik Nauk.-Dydakt. Prace Mat. Wyższa Szkoła Pedagogiczna w Krakowie. Rocznik Naukowo-Dydaktyczny. Prace Matematyczne. (Kraków)

Wyż. Szkoł. Ped. w Katowicach—Zeszyty Nauk. Sekc. Mat. Wyższa Szkoła Pedagogiczna w Katowicach. Zeszyty Naukowe. Sekcja Matematyki. (Katowice) (Continued as: *Uniw. Śląski w Katowicach—Prace Mat.*)

Yokohama Math. J. Yokohama Mathematical Journal. (Yokohama)

Z. Allgemeine Wissenschaftstheorie. Zeitschrift für Allgemeine Wissenschaftstheorie. (Wiesbaden)

Z. Angew. Math. Mech. Zeitschrift für Angewandte Mathematik und Mechanik. Ingenieurwissenschaftliche Forschungsarbeiten. (Berlin)

Z. Angew. Math. Phys. Zeitschrift für Angewandte Mathematik und Physik. ZAMP. Journal of Applied Mathematics and Physics. Journal de Mathématiques et de Physiques Appliquées. (Basel)

Z. Eksper. Teoret. Fiz. Akademija Nauk SSSR. Žurnal Eksperimental'noi i Teoretičeskoi Fiziki. (Moscow) (Translated as: *Soviet Physics JETP*)

Z. Elek. Informations- und Energietechnik. Zeitschrift für Elektrische Informations- und Energietechnik. (Leipzig)

Z. Math. Logik Grundlagen Math. Zeitschrift für Mathematische Logik und Grundlagen der Mathematik. (Berlin)

Z. Naturforsch. Zeitschrift für Naturforschung. (Tübingen)

Z. Operations Res. Ser. A-B. Zeitschrift für Operations Research. Serie A. Serie B. (Würzburg)

Z. Phonetik Sprachwiss. Kommunikat. Zeitschrift für Phonetik Sprachwissenschaft und Kommunikationsforschung. (Berlin)

Z. Physik. Zeitschrift für Physik. (Berlin)

Z. Prikl. Meh. i Tehn. Fiz. Žurnal Prikladnoi Mehaniki i Tehničeskoi Fiziki. (Moscow) (Translated as: *J. Appl. Mech. Tech. Phys.*)

- Ž. Strukt. Him.* *Žurnal Strukturnoi Himii.* (Moscow)
- Ž. Vyčisl. Mat. i Mat. Fiz.* *Akademija Nauk SSSR. Žurnal Vychislitel'noi Matematiki i Matematičeskoi Fiziki.* (Moscow) (Translated as: *U.S.S.R. Computational Math. and Math. Phys.*)
- Z. Wahrscheinlichkeitstheorie und Verw. Gebiete.* *Zeitschrift für Wahrscheinlichkeitstheorie und Verwandte Gebiete.* (Berlin)
- Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* See *Vestnik Har'kov. Gos. Univ.*
- Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI).* *Zapiski Nauchnykh Seminarov Leningradskogo Otdelenija Matematičeskogo Instituta im. V. A. Steklova Akademii Nauk SSSR (LOMI).* (Leningrad) (Translated in *J. Soviet Math.*)
- Zastos. Mat.* *Polska Akademia Nauk. Instytut Matematyczny. Zastosowania Matematyki.* (Warsaw)
- Zbl.* *Zentralblatt für Mathematik und ihre Grenzgebiete.* (Berlin)
- Zbl. Math.* *Zentralblatt für Mathematik und ihre Grenzgebiete.* (Berlin) (Usually abbreviated *Zbl* in the text of *Math. Reviews*)
- Zemdel. Meh.* *Vsesojuznaja Akademija Sel'skhozjaistvennykh Nauk im. V. I. Lenina. Zemdel'českaja Mehanika.* (Moscow)
- Zeszyty Nauk. Akad. Gór.-Hutniczej—Math.-Fiz.-Chem.* *Zeszyty Naukowe Akademii Górniczo-Hutniczej im. Stanisława Staszica. Matematyka-Fizyka-Chemia.* (Kraków)
- Zeszyty Nauk. Mat. Fiz. i Chem. Wyt. Szkol. Ped. Gdańsk.* *Zeszyty Naukowe Matematyka Fizyka i Chemia. Wyższa Szkoła Pedagogiczna w Gdańsku. Wydział Matematyki, Fizyki i Chemii.* (Gdańsk)
- Zeszyty Nauk. Politech. Poznań.* *Zeszyty Naukowe Politechniki Poznańskiej.* (Poznań)
- Zeszyty Nauk. Politech. Śląsk. Automat.* *Zeszyty Naukowe Politechniki Śląskiej. Automatyka.* (Gliwice)
- Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz.* *Zeszyty Naukowe Politechniki Śląskiej. Matematyka-Fizyka.* (Gliwice)
- Zeszyty Nauk. Politech. Szczecin.* *Zeszyty Naukowe Politechniki Szczecińskiej.* (Szczecin)
- Zeszyty Nauk. Univ. Jagiello. Prace Fiz.* *Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Fizyczne.* (Kraków)
- Zeszyty Nauk. Univ. Jagiello. Prace Mat.* *Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace Matematyczne.* (Kraków)
- Zeszyty Nauk. Univ. Jagiello. Prace z Logiki.* *Zeszyty Naukowe Uniwersytetu Jagiellońskiego. Prace z Logiki.* (Kraków)
- Zeszyty Nauk. Univ. Łódz. Nauki Mat. Przyrod. Ser. II.* *Zeszyty Naukowe Uniwersytetu Łódzkiego. Nauki Matematyczno-Przyrodnicze. Seria II.* (Łódź)
- Zeszyty Nauk. Wyt. Szkol. Ped. Opol.* *Zeszyty Naukowe Wyższej Szkoły Pedagogicznej w Opolu.* (Opole)
- Zhongguo Kezue Jishu Daxue Xuebao.* (Peking) See *J. China Univ. Sci. Techn.*

JOURNALS IN TRANSLATION

- Acta Mech. Sinica** (New York). *Acta Mechanica Sinica*. (New York) (Translation of *Acta Mech. Sinica* (Peking))
- Algebra and Logic**. *Algebra and Logic*. (New York) (Translation of *Algebra i Logika*)
- Astrophysics**. *Astrophysics*. A translation of *Astrofizika* of the Academy of Sciences of the Armenian SSR. (New York) (Translation of *Astrofizika*)
- Automat. Control and Computer Sci.** *Automatic Control and Computer Sciences*. (New York) (Translation of *Avtomat. i Vychisl. Tehn.* (Riga))
- *Automat. Document. and Math. Linguistics**. *Automatic Documentation and Mathematical Linguistics*. (New York) (Translation of: *Naučn.-Tehn. Informacija* (VINITI) *Ser. 2. Informacionnye Processy i Sistemy*)
- Automat. Remote Control**. *Automation and Remote Control*. A translation of *Avtomatika i Telemekhanika*, a publication of the Academy of Sciences of the USSR. (Pittsburgh, Pa.) (Translation of *Avtomat. i Telemekh.*)
- Chinese J. Phys.** (Peking). *Chinese Journal of Physics*. Peking. A translation of *Acta Physica Sinica* of the Chinese Academy of Sciences, Peking. (New York) (Translation of *Acta Phys. Sinica*)
- Chinese Math.—Acta**. *Chinese Mathematics*. *Acta*. A translation of *Acta Mathematica Sinica*. (Providence, R.I.) (Translation of *Acta Math. Sinica*)
- Cybernetics**. *Cybernetics*. (New York) (Translation of *Kibernetika* (Kiev))
- Differential Equations**. *Differential Equations*. (New York) (Translation of *Differentsial'nye Uravneniya*)
- Electron. Commun. Japan**. *Electronics and Communications in Japan*. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D.C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi*. See also: *Systems-Computers-Controls*)
- Engng. Cybernetics**. *Engineering Cybernetics*. English edition of *Tekhnicheskaya Kibernetika*. (New York) (Translation of *Izv. Akad. Nauk SSSR Tehn. Kibernet.*)
- Fluid Dynamics**. *Fluid Dynamics*. (New York) (Translation of *Izv. Akad. Nauk SSSR Ser. Meh. Zhidk. Gaza*)
- Functional Anal. Appl.** *Functional Analysis and its Applications*. (New York) (Translation of *Funktsional. Anal. i Prilozhen.*)
- Geodes. and Aerophot.** *Geodesy and Aerophotography*. (Washington, D.C.) (Translation of *Izv. Vysš. Učebn. Zaved. Geod. i Aeroft.*)
- Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.** *Izvestiya Academy of Sciences USSR. Atmospheric and Oceanic Physics*. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana*)
- Izv. Acad. Sci. USSR Phys. Solid Earth**. *Izvestiya Academy of Sciences USSR. Physics of the Solid Earth*. (Washington, D.C.) (Translation of *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli*)
- J. Appl. Math. Mech.** *Journal of Applied Mathematics and Mechanics*. Translation of the Soviet journal *Prikladnaya Matematika i Mekhanika*. (New York) (Translation of *Prikl. Mat. Meh.*)
- J. Appl. Mech. Tech. Phys.** *Journal of Applied Mechanics and Technical Physics*. (New York) (Translation of *Ž. Prikl. Meh. i Tehn. Fiz.*)
- J. Engng. Phys.** *Journal of Engineering Physics*. (New York) (Translation of *Inf.-Fiz. Ž.*)
- J. Soviet Math.** *Journal of Soviet Mathematics*. (New York) (Translation of: (1) *Itogi Nauki—Seriya Matematika* (Progress in Science—Mathematical Series); (2) *Problemy Matematicheskogo Analiza* (Problems in Mathematical Analysis); (3) *Zap. Nauch. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)*)
- Kosmides. Issled.** *Kosmicheskie Issledovaniya*. (Moscow) (Translated as *Cosmic Res.*)
- Magnetohydrodynamics**. *Magnetohydrodynamics*. A translation of *Magnitnaya Gidrodinamika* of the Academy of Sciences of the Latvian SSR. (New York) (Translation of *Magnit. Gidrodinamika*)
- Math. Notes**. *Mathematical Notes of the Academy of Sciences of the USSR*. (New York) (Translation of *Mat. Zametki*)
- Math. USSR-Izv.** *Mathematics of the USSR-Izvestiya*. (Providence, R.I.) (Translation of *Izv. Akad. Nauk SSSR Ser. Mat.*)
- Math. USSR-Sb.** *Mathematics of the USSR-Sbornik*. (Providence, R.I.) (Translation of *Mat. Sb.*)
- Mechanics of Solids**. *Mechanics of Solids*. (New York) (Translation of *Izv. Akad. Nauk SSSR Meh. Tverd. Tela*)
- Moscow Univ. Math. Bull.** *Moscow University Mathematics Bulletin*. (New York) (Translation of the mathematics section of *Vestnik Moskov. Univ. Ser. I Mat. Meh.*)
- Moscow Univ. Phys. Bull.** *Moscow University Physics Bulletin*. (New York) (Translation of *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.*)
- Probleme der Kybernetik**. *Probleme der Kybernetik*. (Berlin) (Translation of *Problemy Kibernet.*)
- Problems of Information Transmission**. *Problems of Information Transmission*. (New York) (Translation of *Problemy Peredachi Informatsii*)
- Proc. Steklov Inst. Math.** *Proceedings of the Steklov Institute of Mathematics*. (Providence, R.I.) (Translation of *Trudy Mat. Inst. Steklov.*)
- Proc. (Trudy) P. N. Lebedev Phys. Inst.** *Proceedings (Trudy) of the P. N. Lebedev Physics Institute*. (New York) (Translation of *Trudy Fiz. Inst. Lebedev.*)
- Radio Engng. Electron. Phys.** *Radio Engineering and Electronic Physics*. Translation of *Radiotekhnika i Elektronika*, a U.S.S.R. Academy of Sciences Publication. (New York) (Translation of *Radiotekhn. i Elektron.*)
- Radiophys. and Quantum Electronics**. *Radiophysics and Quantum Electronics*. A translation of *Izvestiya Vysših Uchebnyh Zavedenii Radiofizika* of the Ministry of Higher Education of the USSR. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Radiofizika*)
- Russian Math. Surveys**. *Russian Mathematical Surveys*. A translation of the survey articles and of selected biographical articles in *Uspehi Matematicheskikh Nauk*. (London) (Translation of *Uspehi Mat. Nauk*)
- Siberian Math. J.** *Siberian Mathematical Journal*. (New York) (Translation of *Sibirsk. Mat. Ž.*)
- Soviet Aeronaut.** *Soviet Aeronautics*. (New York) (Translation of *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.*)
- Soviet Appl. Mech.** *Soviet Applied Mechanics*. (New York) (Translation of *Prikl. Meh.*)
- Soviet Astronom. AJ.** *Soviet Astronomy*. *AJ.* A translation of *Astronomicheskii Zhurnal*, the astronomical journal of the Academy of Sciences of the USSR. (New York) (Translation of *Astronom. Ž.*)
- Soviet Automat. Control**. *Soviet Automatic Control*. (New York) (Translation of *Avtomatika*)
- Soviet J. Nuclear Phys.** *American Institute of Physics. Soviet Journal of Nuclear Physics*. (New York) (Translation of *Jadernaya Fiz.*)
- Soviet J. Particles and Nuclei**. *Soviet Journal of Particles and Nuclei*. (New York) (Translation of *Fiz. Elementar. Častic. i Atom. Jadra*)
- Soviet Math. Dokl.** *Soviet Mathematics*. *Doklady*. A translation of the mathematics section of *Doklady Akademii Nauk SSSR*. (Providence, R.I.) (Translation of mathematics section of *Dokl. Akad. Nauk SSSR*)
- *Soviet Math. (Is. VUZ)**. *Soviet Mathematics* (*Izvestiya Vysših Učebnyh Zavedenii. Matematika*). (New York) (Translation of: *Izv. Vysš. Učebn. Zaved. Matematika*)
- Soviet Physics Acoust.** *Soviet Physics. Acoustics*. A translation of *Akusticheskii Zhurnal* of the Academy of Sciences of the USSR. (New York) (Translation of *Akust. Ž.*)

- *Soviet Physics—Collection.** Soviet Physics. Collection. (New York) (Translation of: *Litovsk. Fiz. Sb.*)
- Soviet Physics Dokl.** Soviet Physics. Doklady. A translation of the physics sections of *Doklady Akademii Nauk SSSR*. (New York) (Translation of physics sections of *Dokl. Akad. Nauk SSSR*)
- Soviet Physics J.** Soviet Physics Journal. (New York) (Translation of *Izv. Vysf. Uchebn. Zaved. Fizika*)
- Soviet Physics JETP.** Soviet Physics. JETP. A translation of *Ž. Eksperimental'noi i Teoreticheskoi Fiziki* of the USSR. (New York) (Translation of *Ž. Eksper. Teoret. Fiz.*)
- Soviet Physics Uspekhi.** Soviet Physics. Uspekhi. A translation of *Uspekhi Fizicheskikh Nauk* (Advances in the Physical Sciences) of the Academy of Sciences, U.S.S.R. (New York) (Translation of *Uspekhi Fiz. Nauk*)
- Systems-Computers-Controls.** Systems-Computers-Controls. The Transactions of the Institute of Electronics and Communication Engineers of Japan. (Washington, D.C.) (A partial translation of *Denshi Tsushin Gakkai Ronbunshi*. See also: *Electron. Commun. Japan*)
- Systems Theory Res.** Systems Theory Research. (New York) (Translation of *Problemy Kibernet.*)
- Theor. Probability Appl.** Theory of Probability and its Applications. An English translation of the Soviet journal *Teoriya Veroyatnostei i ee Primeneniya*. (Philadelphia, Pa.) (Translation of *Teor. Veroyatnost. i Primenen.*)
- Theoret. and Math. Phys.** Theoretical and Mathematical Physics. (New York) (Translation of *Theoret. Mat. Fiz.*)
- *Theory Probability and Math. Statist.** Theory of Probability and Mathematical Statistics. (Providence, R.I.) (Translation of: *Teor. Veroyatnost. i Mat. Statist.*)
- Trans. Moscow Math. Soc.** Transactions of the Moscow Mathematical Society. (Providence, R.I.) (Translation of *Trudy Moskov. Mat. Obšč.*)
- *Vestnik Leningrad Univ. Math.** Vestnik Leningrad University. Mathematics. (Providence, R.I.) (A translation of the mathematics section of *Vestnik Leningrad Univ. Mat. Meh. Astronom.*)
- U.S.S.R. Computational Math. and Math. Phys.** U.S.S.R. Computational Mathematics and Mathematical Physics. (Oxford) (Translation of *Ž. Vychisl. Mat. i Mat. Fiz.*)
- Ukrainian Math. J.** Ukrainian Mathematical Journal. (New York) (Translation of *Ukrain. Mat. Ž.*)

ERRATA AND ADDENDA

VOLUME 12

p. 501: Hopf, Eberhard

The journal line should read: "Ber. Verh. Sächs. Akad. Wiss. Leipzig Math.-Nat. Kl. 94 (1942), no. 1, 3-22 (1943)".

VOLUME 32

#2611: Špilevskii, E. K.; Strelacas, Š. I.

After the name of the first author add [Špilevskis, E.].

Index for Volume 32

On page 1700 change the entry for E. K. Špilevskii to read "See Špilevskis, E." and transfer item 2611 to a new entry for E. Špilevskis.

VOLUME 34

#7228: Advances in control systems: Theory and applications. Vol. 3.

The third line from the bottom should read: "Articles of mathematical interest will be reviewed individually."

VOLUME 37

#5419: Avanissian, Vazguen; Gay, Roger

After the name of the first author replace the name in brackets by Avanesjan, V.

Index for Volume 37

On page 1342 change the entry for Vazgain Avanissian to read "See Avanesjan, V." and replace the entry Avanissian, Vazguen by Avanesjan, V.

VOLUME 38

#37: Medvedev, Ju. T.

In line 5 replace "(formulas always decidable)" by "(identically solvable formulas)".

VOLUME 39

#6695: Dubrov, Ja. A.

After the name of the author add [Dubrov, Ja. O.].

Index for Volume 39

On page 1466 change the entry for Ja. A. Dubrov to read "See Dubrov, Ja. O." and transfer item 6695 to a new entry for Ja. O. Dubrov.

VOLUME 42

#627: Nikolajska, Z.

The author's name is misspelled. It should be Mikolajska.

#5109: Sakrison, David J.

The name "Kač" in the title and in the first line of the review is misspelled; it should be Kac.

#2648: Zverovič, L. F.

After the name of the author add [Zvirovič, L. F.].

Index for Volume 42

On page 1787 change the entry for L. F. Zverovič to read "See Zvirovič, L. F." and transfer item 2648 to a new entry for L. F. Zvirovič.

VOLUME 43

#641: Pustovoitov, N. A.

After the name of the author add [Pustovoitov, M. O.].

#7065: Mysovskih, I. P.; Černicina, V. Ja.

After the title, add "(Russian)".

#6965: Zaharia, Stoian

The author's name should be Stoian, Zaharia.

Index for Volume 43

On page 1659 change the entry for Stoian Zaharia to read "See Stoian, Zaharia" and transfer item 6965 to a new entry for Zaharia Stoian.

VOLUME 44

- #2911: Vasić, Petar M.; Janić, Radovan R.; Kečkić, Jovan D.

In line 3, the inequality should read $\alpha < \arg z, < \alpha + \theta$. In line 5 insert the word "partially" before "sharper than".

- #3261: Mishra, R. S.; Hit, Ram

After the name of the second author add [Ram Hit].

- #3262: Mishra, R. S.; Hit, Ram

After the name of the second author add [Ram Hit].

- #3522: Litvinenko, L. N.

After the name of the author add [Litvinenko, L. M.].

- #3571: Džuzumkulov, T.

In the heading, change the volume no. from 25 to 15.

- #4944: Benzécri, Jean-Paul

In line 3 change "Methodologies" to "Methodologies".

- #7501: Mishra, R. S.; Hit, Ram

After the name of the second author add [Ram Hit].

- #7827: Džuzumkulov, T.

In the heading, change the volume no. from 25 to 15.

Index for Volume 44

On page 1515 change the entry for Hit, Ram to read "See Ram Hit." and transfer items 3261, 3262 and 7501 to a new entry for Ram Hit. On page 1536 change the entry for L. N. Litvinenko to read "See Litvinenko, L. M." and transfer item 3522 to a new entry for L. M. Litvinenko.

VOLUME 45

- #1721: Entitled György Hajós (1912–1971).

The title should read "György Hajós (1912–1972)".

- #2987: Litvinenko, L. N.

After the name of the author add [Litvinenko, L. M.].

- #4933: Gupta, R. C.

After the name of the author add [Gupta, Radha Charan].

- #5907: Mishra, R. S.; Hit, Ram

After the name of the second author add [Ram Hit].

Index for Volume 45

On page 1835 change the entry for R. C. Gupta to read "See Gupta, Radha Charan." and transfer item 4933 to a new entry for Radha Charan Gupta. In the Subject Index on page A1, column 2, section 01A35 change R. C. Gupta to Radha Charan Gupta. On page 1840 change the entry for Hit, Ram to read "See Ram Hit." and transfer item 5907 to a new entry for Ram Hit. In the Subject Index on page A54, column 1, section 53C15 change "Hit, Ram; et al." to "Ram Hit; et al." On page 1865 change the entry for L. N. Litvinenko to read "See Litvinenko, L. M." and transfer item 2987 to a new entry for L. M. Litvinenko. In the Subject Index on page A74, column 2, section 78–35 change L. N. Litvinenko to L. M. Litvinenko.

VOLUME 46

- #1602: Hoggatt, V. E., Jr.; Alexanderson, G. L.

The first reference should read: The first author and W. Hansell [same Quart. 9 (1971), 120, 133].

- #2074: Avannisian, Vazguen

Replace the name in brackets by Avanesjan, V.

- #5452: Plotkin, B. I.; Grinberg, A. S.

After the name of the second author add [Grinbergs, A.].

- #6172: Markov, G. [Markov, G. V.]

Delete the name in brackets.

- #6542: Špilevskii, E. K.

After the name of the author add [Špilevskis, E.].

- #10045: Buldygin, V. V.

After the name of the author add [Buldigin, V. V.].

Index for Volume 46

On page 1839 change the entry for Vazguen Avannisian to read V. Avanesjan. In the Subject Index on page 2082, column 1, section 32A15 change Vazguen Avannisian to V. Avanesjan. On page 1852 change the entry for V. V. Buldygin to read "See Buldigin, V. V." and transfer item 10045 to a new entry for V. V. Buldigin. In the Subject Index on page 2118, column 2, section 60F15 change V. V. Buldygin to V. V. Buldigin. On page 1886 change the entry for A. S. Grinberg to read "See Grinbergs, A." and transfer item 5452 to a new entry for A. Grinbergs. In the Subject Index on page 2072, column 2, section 20E10 change A. S. Grinberg to A. Grinbergs. On page 1932, column 2, change G. V. Markov to G. Markov. In the Subject Index on page 2108, column 1, section 53A05 change G. V. Markov to G. Markov. On page 1985 change the entry for E. K. Špilevskii to read "See Špilevskis, E." and transfer item 6542 to a new entry for E. Špilevskis. In the Subject Index on page 2122, column 2, section 62H30 change E. K. Špilevskii to E. Špilevskis. In the Subject Index on page 2051, column 1, section 01A70 change Giulio Krall to Giulio Krall.

VOLUME 47

#513: Shah, Manilal

The results in this paper are identical with those of a previous article by the author [Glasnik Mat. Ser. III 6 (26) (1971), 247-251; MR 46 #7568].

#2201: Il'in, V. A.

In the title, replace the word "finite" by "compactly supported".

#2406: Shapiro, Jack; Schechter, Martin

In line 3 remove the symbol C^* .

#2508: Cavalieri D'Oro, Luigi

In the title, change "trasformazione" to "trasformazione".

Index to issue no. 2 (February)

The following authors were omitted from the index and should be added on page 544: Todhunter, Isaac . . . 2697, Yanagihara, Niro . . . 2066. In the entry for Thomas Young replace "2697" by "2700". In the entry "Studies in the history of probability and statistics", replace the numbers present by 2697-2707.

#4528: Markov, A. A.

After the name of the author add [Markov, Aleksander Aleksandrovič].

Index to issue no. 3 (March)

The following authors were omitted from the index and should be added: Gillespie, T. A. . . . 4040, Hughes, R. B. . . . 3624, Maluhin, S. A. . . . 4352, West, T. T. . . . 4040.

#6622: Mordell, L. J.

The last three words should be "Lagrange resolvent representations".

#7984: Ball, J. M.

In line 6 replace " $u(x, T) = u_1(x)$ " by " $u(x, 0) = u_1(x)$ ".

#8697: Chong Keang, Lim

The author's name was incorrectly divided. It should be Lim, Chong Keang.

Index to issue no. 6 (June)

The following authors were omitted from the index and should be added: Bajpai, S. D. . . . 8920, Kamthan, Pawan Kumar . . . 8857, Mori, Seiki . . . 8858. On page 1789 delete the entry for Chong-Keang, Lim, and on page 1791 add "Lim, Chong Keang . . . 8697".

Index for Volume 47

On page 1821 delete the name "Chong-Keang, Lim." and transfer item 8697 to a new entry for "Lim, Chong Keang". On page 1891 change the entry for A. A. Markov to read "See Markov, Aleksander Aleksandrovič" and transfer item 4528 to a new entry for Aleksander Aleksandrovič Markov. In the Subject Index on page 2029, column 2, section 16A60 add Yoshimi Kitamura.

VOLUME 48

#172: Plummer, M. D.

This review and the review MR 47 #8341 were interchanged. This article is reviewed in MR 47 #8341 and conversely.

#199: Biscarini, Paola

This review was inadvertently published in Section 06: ORDER, LATTICES, ORDERED ALGEBRAIC STRUCTURES. It belongs in Section 05: COMBINATORICS, between reviews #129 and #130.

#262: Krätzel, Ekkehard

In line 8 replace $O(x^{(n-1)(k-1)/k^2})$ by $O(x^{n(n-1)/k(n+1)})$.

#584: Srivastava, H. M.

The reference to Zbl 27, 261, line 9, should be Jbuch 27, 261.

#1055: Calapso, Maria Teresa

After the name of the author add [Familiari-Calapso, Maria Teresa].

#1064: Calapso, Maria Teresa

After the name of the author add [Familiari-Calapso, Maria Teresa].

#1224: Moszyńska, M.

In the title replace the word "spacers" by "spaces".

#1286: Mišelis, F. F.

In line 7 from the bottom replace the sentence following (1) by the following: " $L \subset L_c$, for $0 < c < 1$, where L is a class of limit distributions for increasing sums of independent random variables."

Index to issue no. 1 (July)

On page 321, column 4, delete the entry for Maria Teresa Calapso and transfer items 1055, 1064 to a new entry for Maria Teresa Familiari-Calapso. The following authors were omitted from the index and should be added: Allegretto, W. . . . 625, Cresswell, M. J. . . . 67, Erbe, L. . . . 625, Freiwald, Ronald C. . . . 1136, Jakovlev, N. E. . . . 1733, Monov, B. T. . . . 725, Salhatdinov, M. S. . . . 725. MR #77 should be added to the entry for Ceitin, G. S.; Collection of articles honoring the completion by Antoni Zygmund of 50 years of scientific activity, I. . . . 1336 should be added to the Key Index; Mathematics and Mechanics, No. 1, Part 1. . . . *595 should be added to the Key Index and the MR number for the entry for Function theory and NRL Conference on Classical Function Theory, Proceedings should be *505.

#1854: Perčinkova, D.

After the name of the author add [Perčinkova-V'škova, Danica].

#2371: Leutwiler, Heinz; Schober, Glenn

In line 5 change $f(\zeta)$ to read $\bar{f}(\zeta)$ twice.

#2715: Valdivia, Manuel

After the name of the author add [Valdivia Ureña, Manuel].

#3099: Banyas, J.

In the second sentence replace $\mu_{ij}(m)$ by $\mu_{ij}^{(k_i, k_j, k_0)}(m)$. Replace the third sentence by the following: "Suppose that S_n ($n \geq n_0$) has a bounded density function p_n , $\mu_{ij}^{(k_i, k_j, k_0)}(0) = \dots = \mu_{ij}^{(k_i, k_j, k_0)}(r) = 0$, for any k_i, k_j, k_0 ($0 \leq k_i + k_j + k_0 = m < n$) and $\int |x|^r d(F - G) < \infty$."

#3341: Suliciu, I.; Lee, S. Y.; Ames, W. F.

Between the title and the italic line insert the following: "Collection of articles dedicated to Salomon Bochner."

#3513: Elliott, R. J.; Kalton, N. J.; Markus, L.

After the name of the first author add [Elliott, Robert J.].

#3604: Nomura, Tamiya; Miyakawa, Hiroshi; Imai Hideki; Fukada, Akira

The fourth author's name is incorrect. Replace "Fukada" by "Fukuda".

#3752: Brylawski, Thomas

Delete the last sentence of the review.

#4155: Yousufzai, Afzal Ahmad Khan

The last sentence should read: "The last part could be useful, but it contains numerous errors, gaps, and inconsistencies."

#4760: Laursen, K. B.

In the italic line of the heading change "1973" to "1974".

#6925: Carmichael, Richard D.

\mathfrak{O}_α' should be \mathfrak{O}_α in the title and throughout the body of the review.

#8155: Entitled {Collection of articles dedicated to Isaac Jacob Schoenberg on his 70th birthday. III}.

The reference to Part IV of this collection should be MR 47 #6405.

#9751: Maxim, L.

In the title change "compatibles" to "compatible".

#10737: Entitled Contributions to Analysis.

In the last article cited, the author's name should be R. O. Wells, Jr.

The classification of the following reviews was misplaced and their MR numbers should be inserted as follows:

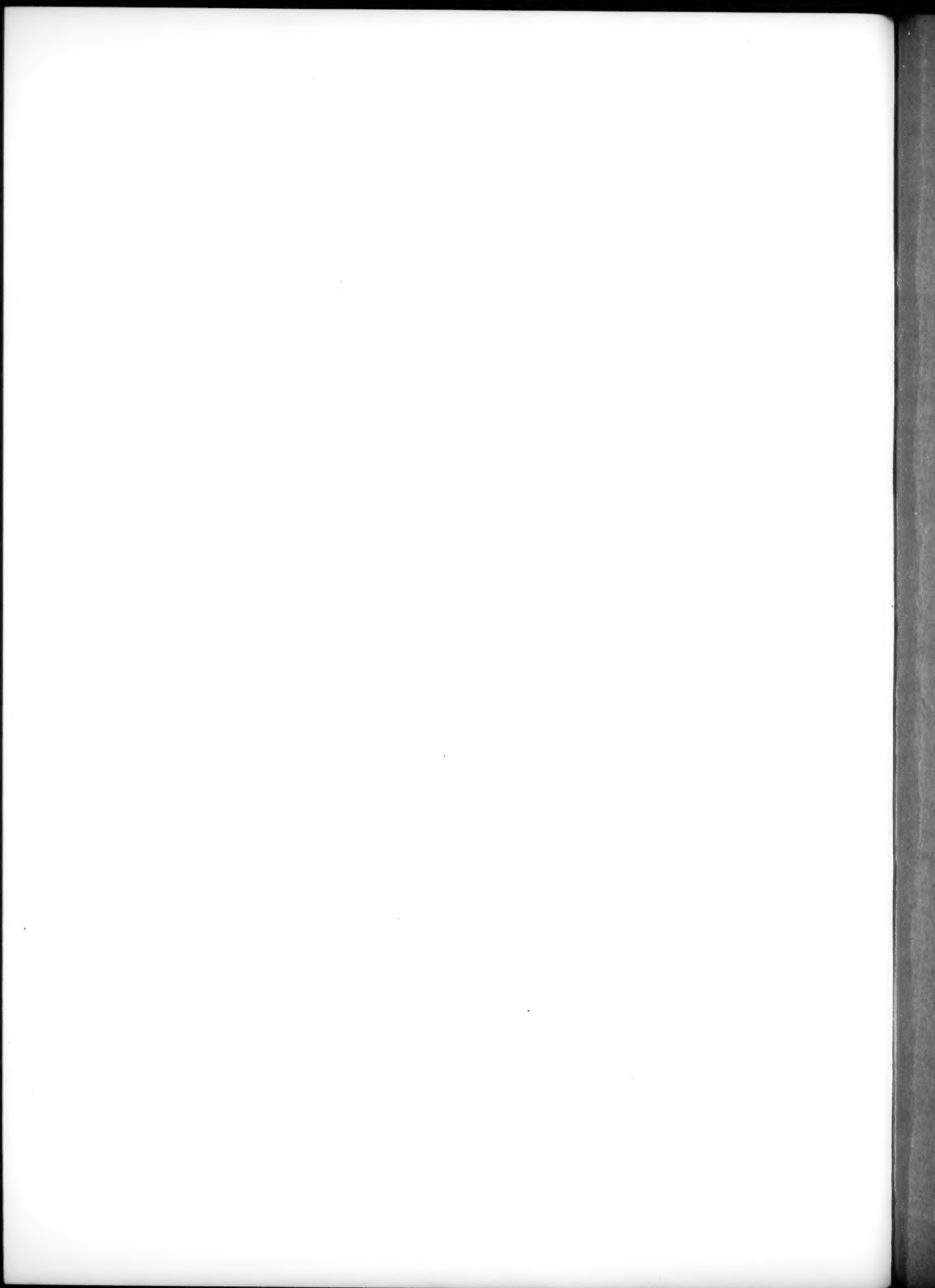
#10976 between #11004 and #11005, #11035 between #11008 and #11009, #11073 between #11067 and #11068, #11122 between #11133 and #11134, #12539 between #12512 and #12513.

TRANSLITERATION OF CYRILLIC

Russian Letter Cap. Ital.	Mathematical Reviews; Zentralblatt für Mathematik	Bulletin Signalétique	Applied Mechanics Reviews	Science Abstracts	U.S. Library of Congress	Amer. Slavic & E. European Review	Journal of Symbolic Logic
А а	a	a	a	a	a	a	a
Б б	b	b	b	b	b	b	b
В в	v	v	v	v	v	v	v
Г г	g	g	g	g	g	g	g
Д д	d	d	d	d	d	d	d
Е е	e	e	e	e	e	e	e
Ё ё	e	ë	e	ë	ë	ë	ë
Ж ж	zh	zh	zh	zh	zh	zh	zh
З з	z	z	z	z	z	z	z
И и	i	i	i	i	i	i	i
Й й	j	j	j	j	j	j	j
К к	k	k	k	k	k	k	k
Л л	l	l	l	l	l	l	l
М м	m	m	m	m	m	m	m
Н н	n	n	n	n	n	n	n
О о	o	o	o	o	o	o	o
П п	p	p	p	p	p	p	p
Р р	r	r	r	r	r	r	r
С с	s	s	s	s	s	s	s
Т т	t	t	t	t	t	t	t
У у	u	u	u	u	u	u	u
Ф ф	f	f	f	f	f	f	f
Х х	h	kh	kh	kh	kh	kh	h
Ц ц	c	c	ts	ts	ts	c	c
Ч ч	ch	ch	ch	ch	ch	ch	ch
Ш ш	sh	sh	sh	sh	sh	sh	sh
Щ щ	sch	sch	sch	shch	shch	sch	sch
Ъ ъ	'	'	'	'	'	'	'
Ы ы	y	y	y	y	y	y	y
Ь ь	'	'	'	'	'	'	'
Э э	e	e	e	e	e	e	e
Ю ю	ju	ju	yu	yu	ju	ju	u
Я я	ja	ja	ya	ya	ia	ja	a

Other *Mathematical Reviews* conventions are as follows:

- The Ukrainian І, і are transliterated I, i, respectively.
- The Ukrainian І, і are reproduced without change.
- The Ukrainian Є, є are transliterated E, e.
- The Serbian Ђ, ђ are transliterated D, d, respectively.
- The Serbian Ћ, ћ are transliterated Č, č; the Serbian Њ, њ are transliterated Dž, dž.



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